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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटन्ट कार्यालय द्वारा जारी की गई पेटन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

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Calcutta, the 30th May 1987

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APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700 017

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

The 22nd April, 1987

315/Cal/87. Dr. Prabir Chakravarty. Floor sweeping and swabbing machine.

316/Cal/87. Noel Carroll. Cyclone separator. (Convention dated 23rd April, 1986) Australia.

317/Cal/87. Saramane Pty. Ltd. Polypeptides providing protective immunity against malaria. (Convention dated 23rd April, 1986) Australia.

318/Cal/87. Mrs. Tapati Paul. Improved method for making ground/surface water full of iron and a device therefor.

319/Cal/87. E. I. Du Pont De Nemours And Company. Process and apparatus.

320/Cal/87. Panelbrick Industries Pty. Limited. Brick panel walling. (Convention dated 23rd April, 1986) Australia.

The 23rd April, 1987

321/Cal/87. Institut Problem Modelirovania V Energetike Akademii Nauk Ukrainskoi SSR. Method for erasing information.

322/Cal/87. Nauchno-Issledovatelsky Institut Tekhnologii Avtomobilnoi Promyshlennosti (Niitavtoprom). Method of reconditioning a worn side surface of a sleeve-shaped workpiece.

323/Cal/87. Dr. Willmar Schwabe GMBH & Co. 5-Aryl-alkyl-4-alkoxy-2 (5H)-Furanones, intermediates and processes for the preparation thereof and medicaments containing them. (Convention dated 25th March, 1987) U. K.

324/Cal/87. Norton Company. Process for removal of carbon dioxide from gas streams.

325/Cal/87. Iberoamericana Del Embalaje S.A. Stackable tray.

The 24th April, 1987

326/Cal/87. Richter Gedeon Vegyeszeti Gyar Rt. Novel ergolene derivatives, pharmaceutical compositions Containing them and process for preparing same.

327/Cal/87. E. I. Du Pont De Nemours And Company. Titanium dioxide pigment coated with cerulm cations, selected acid anions, and alumina.

328/Cal/87. E. I. Du Pont De Nemours And Company. Titanium dioxide pigment goated with boria-modified silica.

329/Cal/87. Khaitan (India) Limited. Improvements in or relating to motor bodies.

The 27th April 1987

330/Cal/87. United Technologies Corporation. Speed avoidance logic for a variable speed wind turbine.

331/Cal/87. Trutzschler GMBH & Co. KG. A procedure and device for the blending of the card silver at a carding machine.

332/Cal/87. Ausimont S.p.A. Process for the polymerization in aqueous dispersion of fluorinated monomers.

333/Cal/87. Ausimont S.p.A. Microemulsions containing perfluoropolyethers.

334/Cal/87. Ausimont S.p.A. Process for the polymerization in aqueous dispersion of fluorinated monomers.

The 28th April 1987

335/Cal/87. Mr. Pravat Kumar Mukherji. A automobile exhaust hazardous gas cleaner cum silencer called AUTOGASCLEAN for cleaning emission of gases like oxides of carbon, particulates including lead and carbon, oxides of nitrogen, oxides of sulphur, alde hydes, unburnt hydro carbon and polynuclear aromatic hydrocarbons (PAH) including their homologues, from any petrol engine, diesel and engine using any other fuel including stationary engine used for generating power suitable for fitting in automobile and stationary engine exhaust pipe.

336/Cal/87. Institut Problem Modelirovania E Energetike Akademii Nauk Ukrainskoi SSR. Method of recording and erasing information on optical carrier and optical memory therefor.

337/Cal/87. Institut Problem Modelirovania E Energetlike Akademii Nauk Ukrainskoi SSR. Method of photothermal information recording, reading and erasing.

338/Cal/87. Bio-Metric Systems, Inc. Rapid assay involving solid phase receptors.

339/Cal/87. Hitachi Ltd. Variable-Speed Pumped-Storage Power Generating System.

APPLICATION FOR THE PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, 3RD FLOOR, KAROL BAGH, NEW DELHI-5.

The 1st April 1987

277/Del/87. Distrigaz S.A., "Process and apparatus for the cocurrent gasification of coal".

The 2nd April 1987

278/Del/1987. Tatsuo INA, "Portable Oxygen generating device".

279/Del/1987. W.R. Grace & Co., "Process for removal of trace contaminants from a glyceride oil and composition for use therein".

280/Del/1987. Thermo-Solar Energietechnik GmbH., "Vacuum solar collector".

281/Del/1987. Pfizer Limited, "Improvements in pharmaceutically acceptable salts".
(Convention date 4th April, 1986), (U.K.).

282/Del/1987. Imperial Chemical Industries Plc, "Process of replacing a liquid component of a slurry by a second liquid & apparatus therefor".
(Convention date 9th April, 1986 & 12th August, 1986 U.K.).

The 3rd April 1987

283/Del/1987. Jacques Dory, "A locating method and device for assessing, during a lithotrity operation, the degree of fragmentation of the stones".

284/Del/1987. Jagat Punjabhai Palkhiwala, "An apparatus for and a method of manufacturing intermeshing internally and externally toothed gear lobes".

285/Del/1987. UOP Inc., "Polyurea composition useful for coatings".

286/Del/1987. Whirlpool Corporation, "Compact transmission for automatic washer".

287/Del/1987. Aktiebolaget Bofors, "Improvements to submunitions".

288/Del/1987. Bergwerksverb and GmbH., "Electrically conductive plastic material and a process for its production".

289/Del/1987. Council of Scientific and Industrial Research, "A process for the manufacture of high alumine refractory bricks from sillimanits beach sand by ceramic bonding".

290/Del/1987. Council of Scientific and Industrial Research, "Shredding Machine".

The 6th April 1987

291/Del/1987. Apple Computer, Inc., "Video display apparatus"

The 8th April 1987

292/Del/1987. Council of Scientific and Industrial Research, "A process for the preparation of α-aryl proplonic acids".

293/Del/1987. Caoutchouc Manufacture Et Plastiques, "A process for the manufacture of a conpecting and/or branching device for flexible hoses".

294/Del/1987. Genneral Foods, Corporation, "Upgrading of green coffee".

295/Del/1987. The Lubrizol Corporation, "Urazole compositions useful as additives for functional fluids".

The 9th April 1987

296/Del/1987. Modern Balance Works, "A negative Ion generator".

[Divisional date 3rd September, 1984].

297/Del/1987. Modern Balance Works, "A negative ion generator".

[Divisional date 3rd September, 1984].

298/Del/1987. Naresh Kumar Chibba, "Process and apparatus for manufacturing detergent powders".

299/Del/1987. Exploweld AB., "A method of carrying out explosive welding".

300/Del/1987. Exxon Research and Engineering Company, Primary hindered aminoacids for promoted acid gas scrubbing process".

301/Del/1987. Imperial Chemical Industries P.L C., "Electrostatic spraying apparatus".
(Convention date 21st April, 1986, U.K.).

302/Del/1987. N. V. Bekaert S.A., "Production of steel cord".
(Convention date 27th May, 1986, U.K.)

303/Del/1987. Voest-Alpine Aktiengesellschaft, and Korf Engineering GmbH., "An improved furnace for producing molten pig iron and reduction gas".
[Divisional date 23rd July, 1984].

304/Del/1987. Uniroyal Chemical Company, Inc., "Elastomeric composition".

305/Del/1987. Laboratories Del DR. Esteve, S.A., "Benzifonamides, their preparation and their application fonamides, their preparation and their application as drugs".

The 10th April 1987

306/Del/1987. Geodia, "A process and device for temporarily supporting the walls of a trench".

307/Del/1987. Joseph S. Noria, and Robert Brady, "Earring and other articles of jewelry'.

308/Del/1987. Balcke-Durr Aktiengesllschaft, "Method of securing tubes between tube sheets'.

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The 12th March 1987

73/Bom/87. Y. S. Barve. An Improved Geyser.

The 13th March 1987

74/Bom/87. V. S. Chitrao & S. R. Deshmukh. A novel building complex for National Integration Restaurant Complexes' to be constructed at choice locations in major metropolitan towns of India, for achieving social objective of national integration.

75/Bom/87. R. G. Ambike. Folding mosquito curtain stand for varied uses.

76/Bom/87. Kurimoto Limited. Valve casing for use in a butterfly valve.

The 17th March 1987

77/Bom/87. K. V. R. Nair. Rotary device for converting alternating current to direct current and vice-versa.

78/Bom/87. K. V. R. Nair. Remote control audio electric switches.

79/Bom/87. K. V. R. Nair. Anti-foul guard for suitcase locking.

80/Bom/87. K. V. R. Nair. Device for keeping automobile seat cushions cool while sitting.

81/Bom/87. K. V. R. Nair. Solar energy intensifier.

82/Bom/87. K. V. R. Nair. Process for special blank making for metal processing in solid state.

83/Bom/87. K. V. R. Nair. Method for extruding thin walled hollow sections and tubes.

84/Bom/87. V. R. Parekh & Others. An improved P.C.B. (Printed circuit board) carriers used in electronic industries.

The 18th March 1987

85/Bom/87. S. K. Sanghani. A device to convert forcible water flow energy into electric energy.

The 19th March 1987

86/Bom/87. V. V. Deshmukh. Water heater for automobile.

87/Bom/87. Hindustan Lever Ltd. Hydrogenation Process.

88/Bom/87. Hindustan Lever Ltd. Process for the preparation of nickel/alumina catalysts.

89/Bom/87. Hindustan Lever Ltd. Process for the preparation of nickel/alumina/silicate catalysts.

90/Bom/87. Asim Nagree. Improved Sofa cum bed.

The 20th March 1987

91/Bom/87. Hindustan Lever Ltd. Detergent Compositions.

92/Bom/87. J. M. Stewart & R. J. Vavrek. Bradykinin Antagonist Peptides.

93/Bom/87. D. V. Tiegs & R. G. Tiegs. A split boot.

94/Bom/87. Hoechst India Ltd. A process for the preparation of novel anthracycline derivatives.

The 23rd March 1987

95/Bom/87. Asha Handcrafts. An improved vessel for serving food inits original hot/cold condition.

96/Bom/1987. D. L. Panchal. Invention in or relating to manufacturing two jaws drill chucks.

97/Bom/1987. M. I. A. R. Gokak. Anti-Hijack Device.

98/Bom/1987. D. V. Pandse & S. G. Pendse. Free wheel controlled anti crack device for power looms.

99/Bom/1987. R. K. Katl. Voltage regulators for automobile lamps.

The 24th March 1987

100/Bom/1987. L. Sannabhadti. An multioutput regulator with zero minimum load condition.

APPLICATION FOR PATENTS FILING AT FOR PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

The 13th April 1987

272/Mas/87. VEG-GASINSTITUUT N.V. AND COMPRIMO B.V., A catalyst for the selective oxidation of sulfur containing compounds in particular hydrogen sulfide, to elemental sulfur; a process for the preparation of the catalyst; and a process for the selective oxidation of sulfur containing compounds in particular hydrogen sulfide, to elemental sulfur.

273/Mas/87. VEG-GASINSTITUUT N.V., AND COMPRIMO B. V., A process for recovering sulfur from sulfur-containing Gases.

274/Mas/87. BRITISH STEEL CORPORATION, "Improvements in or relating to injection elements for melt containing vessels". (April 14th, 1986, Great Britain).

275/Mas/87. BRILCUT PATENTANSTALT, "Working Gemstones, and a device for examining Gemstones for bruting". (April 14th, 1986, Great Britain).

276/Mas/87. CENTRAL MACHINE TOOL INSTITUTE, Power monitored adaptive Controller.

The 15th April 1987

277/Mas/87. HOECHST AKTIENGESELLSCHAFT, Hybrid plasmid for replication in methylotrophic micro-organisms, and a process for its preparation.

278/Mas/87. ROSEMOUNT INC. A corporation of the state of Minnesota, Measurement Circuit.

279/Mas/87. CENTRAL MACHINE TOOL INSTITUTE. Inserted Tooth Hob.

280/Mas/87. CENTRAL MACHINE TOOL INSTITUTE. Automatic Deep Hole Recessing Head.

281/Mas/87. CENTRAL MACHINE TOOL INSTITUTE. Internal Roller Burnishing Tool.

282/Mas/87. NOVO INDUSTRI A/S. "Enteral Diet Product and Agent for production thereof".

283/Mas/87. ENICHEM ELASTOMERI S.P.A. AND THE GOODYEAR TYRE & RUBBER COMPANY. Molecular Weight Modifier for use with Lanthanide and Actinide Catalysts.

The 16th April 1987

284/Mas/87. GENERAL MINING UNION CORPORATION LIMITED. Activated Earth Drill.

285/Mas/87. MERLIN GERIN. Solid-State Instantaneous trip Device for a Current Limiting Circuit Breaker.

ALTERATION OF DATE

159584. (824/Cal/84)	Ante dated to 10th February, 1982.
159585. (715/Cal/85)	Ante dated to 27th August, 1984.
159598. (162/Mas/84)	Ante dated to 22nd July, 1981.
159637. (38/Mas/84)	Ante dated to 3rd August, 1979.
159638. (42/Mas/84)	Ante dated to 26th July, 1980.
159641. (118/Mas/84)	Ante dated to 16th October to 16th
159642. (142/Mas/84)	Ante dated to 22nd April, 1981.
159648. (411/Del/84)	Ante dated to 25th September, 1981.
159680. (540/Del/83)	Ante dated to 4th January, 1981.
159681. (541/Del/83)	Ante dated to 4th January, 1980.
159683. (1273/Cal/83)	Ante dated to 1st June, 1981.

COMPLETE SPECIFICATION ACCEPTED

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CLASS : 63-I 159569

Int. Cl. : H 02 n 4/02.

AN ENERGY CONVERSION APPARATUS.

Applicant & Inventor : JOHN HIGSON COVER, AT 24742 VIA SAN FERNANDO, MISSION VIEJO, CALIFORNIA 92691, UNITED STATES OF AMERICA.

Application No. 907/Cal/83 filed July 20, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

An energy conversion apparatus comprising a fluid conduit through which flows a fluid, a source of thermal energy for establishing a flow of said fluid through said conduit, and an electrical generator coupled to said conduit for

generating electrical energy from said flowing fluid, wherein said apparatus is characterized by :

(a) a gas generator coupled to said electrical generator for using at least a portion of said electrical energy to form a gas; and

(b) a conduit for directing at least a portion of said gas into said fluid conduit to increase the rate of flow of said fluid through said fluid conduit.

Compl. specn. 27 pages. Drg. 5 sheets

CLASS : 108-B_2 b 159570

Int. Cl. : C 21 b 5/00.

CONTINUOUS PROCESS FOR PRODUCING PIG IRON CONTAINING 1 TO 3% CARBON.

Applicant : METALLGESELLSCHAFT A.G., OF 16 FRANKFURT A.M., REUTERWEG, WEST GERMANY.

Inventors : 1. MARTIN HIRSCH, 2. PETER FISCHER, 3. HARRY SERBENT.

Application No. 914/Cal/83 filed July 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A continuous process for producing pig iron containing 1 to 3% carbon which comprises melting sponge iron in an elongated horizontal reactor, wherein sponge iron is charged onto the molten material in an intermediate region of the reactor, carbonaceous fuel and high-oxygen gases are blown into the molten material, and slag and molten iron are tapped at opposite ends of the reactor, the said sponge iron being charged into the reactor in an intermediate region of 20 to 40% of the total length of the reactor, fine-grained carbonaceous fuel and high-oxygen gas being blown into the molten material from below in that region, such that the rates of oxygen and carbon blown are sufficient to produce a carbon containing liquid iron containing 1 to 3% carbon, the remaining carbon contained in the molten material being allowed to be reacted in the melt to produce CO, and the remaining energy required in the process being produced by the burning of the CO and hydrogen completely above the molten material as a result of a supply of oxygen-containng gases into the free space of the reactor.

Compl. specn. 15 pages. Drg. 1 sheet.

CLASS : 105-C 159571

Int. Cl. : G 06 k 1/00.

AN IMPROVED SYSTEM FOR COPYING OF SETS OF ORIGINAL DOCUMENT SHEETS.

Applicant : XEROX CORPORATION OF XEROX SQUARE, ROCHESTER, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventors : 1. SUSAN JEAN PELS, 2. DONALD WILLIAM SCHAEFFER.

Application No. 949/Cal/83 filed July 29, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

An improved system for copying of sets of orignal document sheets wherein a set of plural original documents are copied onto both sides of copy sheets to produce a desired plural number precollated duplex copy shec sets, by normally copying the documents only once in each copying circulation of the document set onto one side of copy sheets to form a duplexing buffer and copying other documents onto the opposite sides of the buffer copies to form duplex precollated copies, the improvement comprising :

means for counting the number of documents in the document set and determining that said number of documents is only two or three;

means for automatically switching, in response to said determination, the mode of copying of said documents to a higher productivity two or three document set mode in which plural identical consecutive copies are made from one document by halting the first copying circulation of the document set to copy only said one document, and forming said buffer from said plural identical copies made from said one document to form plural identical buffer sets each consisting of one identical sheet, and then skipping the copying of said same one document in the subsequent production of a number of copy sheet sets corresponding to the number of said plural identical copies.

Compl. specn. 36 pages. Drg. 1 sheet

CLASS : 105-C 159572

Int. Cl. : B 41 l 19/00.

IMPROVED SYSTEM FOR RECIRCULATIVELY PRECOLLATIVELY COPYING A SET OF PLURAL SIMPLEX ORIGINAL DOCUMENTS.

Applicant : XEROX CORPORATION OF EXROX SQUARE, ROCHESTER, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventor : 1. SUSAN JEAN PELS.

Application No. 950/Cal/83 filed July 29, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

In a system of recirculatively precollatively copying a set of plural simplex original documents onto both sides of copy sheets to produce a desired plural number precollated duplex copy sheet sets, by normally copying the documents only once in each copying circulation of the document set, and by forming a buffer set of copies of alternate document pages being duplexed which buffer set copies are printed on only one side, and temporarily stored in a duplex store and by copying alternate documents onto the opposide sides of the buffer set copies in proper sequence to form collated duplex copy sets, and wherein said documents are all copied unidirectionally in reverse (N to 1) page order, the improvement comprising :

means for counting the number of documents in the document set and determining that said number of documents is more than three but less than approximately ten;

means for automatically switching, in response to said determination, the mode of copying said document sheets to a higher productivity small document set mode for initially building two complete and identical said buffer sets of alternate page documents on two initial copying circulations of said document set and placing both said identical buffer sets in the same duplex store and then skipping the copying of said alternate document pages in said two buffer sets in the final two copying circulations of said document set to deplete said two buffer sets.

Compl. specn. 33 pages. Drg. 1 sheet

CLASS : 50-D + 50-E$_3$ 159573

Int. Cl. : F 25 d 1/00, 17/00, 31/00,

AIR STREAM ENTRAINED WATER DRIFT ELIMINATOR FOR CROSS FLOW COOLING TOWER.

Applicant : THE MARLEY COOLING TOWER COMPANY, OF 5800 FOXRIDGE DRIVE, MISSION, KANSAS 66205, U. S. A.

Inventors : 1. OHLER LEVERN KINNEY JR. 2. JOYCE DUANE HOLMBERG.

Application No. 973/Cal/83 filed August 3, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A drift eliminator adapted to be positioned in a crossflow cooling tower between the fill assembly and outlet chamber for removing moisture from the crossflowing, moisture-laden air exiting an exit face of the fill assembly in a generally horizontal direction, said eliminator comprising :

a plurality of imperforate, spaced, aligned, upright wall members each having first, second and third angularly inter connected generally parallel, planar panels;

a plurality of upright, corrugated wall elements, each corrugated element being secured between adjacent wall members and having first, second and third angularly inter connected panels of longitudinally angularly inter connected panels of longitudinally serpentine panels being disposed adjacent respective first, second and third planar panels;

said serpentine panels forming peaks and valleys each of which has a linear extent, the linear extent of the peaks and valleys being at an angle with respect to adjacent zones of merger of the planar panels and the linear extent of the peaks and valleys of each of the serpentine panels being at an angle with respect to the linear extent of the peaks and valleys of the next adjacent serpentine panel;

each corrugated wall element having peaks and valleys and the respectively adjacent wall members cooperating to define spaces which present a plurality of generally vertically stacked, discrete air receiving cells, each cell presenting inlet, intermediate and outlet diversion sections wherein the spaces between the first serpentine panel of each corrugated wall element and the first planar panels of the adjcent wall members present a plurality of vertically stacked, elongated inlet air diversion sections longitudinally oriented upwardly in a first direction;

the spaces between the second serpentine panel of each corrugated wall element and the second planar panels of the adjacent wall members present a pluarlity of vertically stacked elongated, intermediate diversion sections longitudinally oriented upwardly in a second direction different from said first direction.

the spaces, between the third serpentine panel of each corrugated wall element and the third planar panels of the adjacent wall members present a plurality of vertically stacked, elongated outlet diversion sections longitudinally oriented upwardly in a third direction different from said second direction; and

each corrugated wall element having a plurality of individual perforations extending therethrough and disposed in upright alignment, the perforations being located at the zones of merger of the first and second serpentine panels and in each of the peaks of the corrugation of said first and second serpentine panels, perforations being operable to clear moisture from the walls of each cell as the cross-flowing, moisture from the walls of each cell as the cross-flowing, moisture-laden air transits therethrough, the generally aligned perforations providing a downward moisture flow path through the cells for collecting moisture in the lower most portion of the cooling tower, the longitudinal axes of said outlet sections being directed upwardly and outwardly of said exit face at an angle of at least about 20° and not more than 60° to the horizontal.

Compl. specn. 16 pages. Drg. 3 sheets

CLASS : 83-A$_1$ 159574

Int. Cl. : A 23 l 1/10, 1/20, 1/21.

PROCESS FOR THE PRODUCTION OF A PASTA BASED ON STARCHY MATERIALS.

Applicant : SOCIETE DES PRODUITS NESTLE S.A., P.O. BOX 353, 1800 VEVEY, SWITZERLAND.

Inventor : 1. JURG LECHTHALER.

Application No. 1052/Cal/83 filed August 29, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A process for the production of pasta based on starchy materials including gelatinisation, extrusion and drying, which comprises mixing a flour or semolina of a starchy material with soft water and an acid polysaccharide to obtain a dough containing from 35 to 55% of water, the soft water having a concentration of calcium ions of less than 2×10^{-4} M and the acid polysaccharide being added in a proportion of from 0.5 to 2% by weight of the dough, gelatinising the dough by heating and kneading under pressure, cooling the dough to a temperature below 100°C, extruding it in the form of pasta bringing the pasta into contact with water containing 0.05 to 0.2 M of calcium ions which forms a gel with the acid polysaccharide and drying the pasta.

Compl. Specn. 20 pages. Drg. Nil.

CLASS : 31-C. 159575

Int. Cl. : C 23 c 17/00.

GLOW DISCHARGE DEPOSITION APPARATUS FOR THE DEPOSITION OF SEMICONDUCTOR LAYERS ON TO A SUBSTRATE.

Applicant : ENERGY CONVERSION DEVICES, INC., OF 1675 WEST MAPLE ROAD, TROY, MICHIGAN 48084, UNITED STATES OF AMERICA.

Inventors : 1. PREM NATH, 2. KEVIN RICHARD HOFFMAN.

Application No. 1085/Cal/83 filed September, 6 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

Glow discharge deposition apparatus for the deposition of semiconductor layers on to a substrate, which comprises at least one dedicated deposition chamber having a substrate therein, at least one cathode spaced from said substrate, means for introducing process gases between the substrate and the cathode, means for energizing said at least one cathode to develop an electrodynamic field in which the process gases are disassociated into plasma, said field having a central substantially uniform region separating a pair of nonuniform regions and for substantially preventing nonhomogeneous semiconductor films formed by said nonuniform regions of said electrodynamic field from being deposited on to said substrate whereby only the substantially homogeneous semiconductor film formed by the central uniform region of said electrodynamic field is so deposited.

Compl. Specn. 20 pages. Drg. 3 sheet

Class. 32 F_1+32 F_2b+55 E_2+4. 159576.

Int. Cl. C 07 d 51/36 57/20, 91/52.

A PROCESS FOR THE PREPARATION OF NOVEL [BIS (ARYL) METHYLENE]—1—PIPERIDINYL] ALKYL—PURIMIDINONES.

Applicant: JANSSEN PHARMACEUTICA N.V., TURN HOUTSEBAAN 30, B 2340 BEERSE, BEIGIUM.

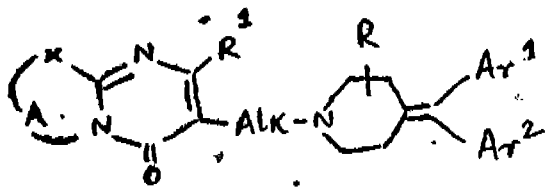
Inventors : 1. LUDO EDMOND JOSEPHINE KENNIS,
2. JAN VANDENBERK, 3. JSEPHUS CAROLOS MERTENS

Application No. 1090/Cal/83 filed September 6, 1983.

Appropriate office for opposition proceedings (Rule 5, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A process for preparing [[(bis (aryl) methylene]-1] piperidinyl alkylpyrimidinones having the formula (I) of the accompanying drawings.



and a pharmaceutically acceptable acid addition salt thereof wherein:

R is hydrogen, hydroxy or lower alkyloxy;

R_1 is a member selected from the group consisting of hydrogen and C_1—C_6 alkyl;

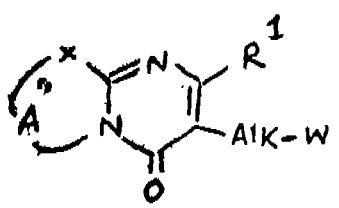
Alk is a C_1—C_6 alkanediyl radical;

X is a member selected from the group consisting of -S-, $-CH_2-$ and $-C(R^2)=(R^3)-$, said R^2 and R^3 being each independently hydrogen or lower alkyl;

A is a bivalent radical having the formula $-CH_2-CH_2-$, $-CH_2-CH_2-CH_2-$or $C=C-$wherein R^4 and R^5

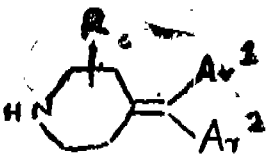
are each independently selected from the group consisting of hydrogen, halo, amino and lower alkyl; and

Ar^1 and Ar^2 are each indepedently selected from the group consisting of pyridinyl, thienyl and phenyl, being optionally substituted with halo, hydroxy, lower alkyloxy, lower alkyl and trifluoro-methyl; *characterized by* reacting compound of formula (II)



wherein A, X, R^1 and Alk are as defined above and W represents reactive leaving group such as, for example, halo, particularly chloro, bromo and iodo, or a sulfonyloxy group, e.g. methlysulfonyloxy, and 4-methylphenylsulfonyloxy

with a piperidine of formula (III)



wherein R, Ar^1 and Ar^2 are as defined above

Following known N-alkylating reaction procedures; and, if desired, preparing therapeutically useful acid addition on salts of the thus obtained compound (I) by the reaction with an appropriate acid.

Compl. Specn. 64 pages. Drg. 3 sheets.

CLASS : 35-C + 141-C 159577

Int. Cl. : C 04 b 7/00, 35/00.

A PROCESS FOR THE CALCINATION OF A SOLID PULVERULENT MATERIAL AND APPARATUS THEREFOR.

Applicant : FIVES-CAIL BABCOCK OF 7 RUE MONTALIVET, 75383 PARIS CEDEX 08, FRANCE.

Inventors : 1. PAUL COSAR, 2. JEAN-PIERRE HENIN.

Application No. 1091/Cal/82 filed September 21, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A process for the calcination of a solid pulverulent material characterized in that it comprises the steps of gasifying a solid fuel in a fluidized bed to produce an ascending current of gaseous fuel, and injecting the solid pulverulent material and an oxidizing gas into the said ascending current of gaseous fuel to mix the gaseous fuel with the oxidizing gas and to disperse the pulverulent material in the gaseous fuel current, the flow velocity of the gases in the zone of injection of the material being such that the material is prevented from falling into the fluidized bed and carried upwards by the gases and the material being calcined due to the heat produced by the combustion of the gaseous fuel and oxidizing gas.

Compl. specn. 11 pages. Drg. 1. sheet

CLASS : 69-I; 76-B & E 159578

Int. Cl. : H 01 r 13/00.

MOUNTING MECHANISM FOR FLANGED ELECTRICAL MODULES AND THE LIKE.

Applicant : ALLIED CORPORATION OF COLUMBIA ROAD AND PARK AVENUE, MORRIS TOWNSHIP, MORRIS COUNTY, NEW JERSEY, UNITED STATES OF AMERICA.

Inventor : 1. WALTER J. PELCZARSKI.

Application No. 1145/Cal/83 filed September 20, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A mounting mechanism for flanged electrical modules and the like having a clip made of spring material and a

U-shaped clasping portion for engaging the front and rear surfaces of a support member at an edge of said member :

first and second opposed spring fingers integral with said clip extending substantialy perpendicularly lo the outer source of that part of said clasping portion which is designated to abut the front surface of said support member, said fingers lying adjacent opposite side edges of said clip and spaced apart such as to springly engage inwardly directed recesses in the longitudinal side surfaces of a rectangular connector mounting flange when positioned between said fingers;

and a manually operated releasable clamp member integral with that extremity of said clip most remote from the edge of a support member when said clamping a portion is engaged thereon for springingly engaging and releasbly clamping a portion of the outer upper scurface of said mounting flange adiacent the longitudinal end extremity thereof when said spring fingers are engaged in said recesses whereby said clip and mounting flange are substantially restrained form movement relative to one another in all directions.

Compl. specn. 12 pages. Drg. 1 sheet

CLASS : 116-G. 159579

Int. Cl. : B 65 g 47/74.

APPARTUS FOR DISCHARGING FINE-GRAINED SOLIDS.

Applicant : METALLGESELLSCHAFT AKTIENGESELISCHAFT, OF REUTERWEG 14, D-6000 FRANKFURT AM MAIN, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. EGON ACKERMANN, 2. RUDIGER GARTNER.

Application No. 486/Cal/84 filed July 7, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

Apparatus for discharging fine-grained solids from a system which is under a higher pressure into a receiving space which is under a lower pressure, comprising a U-shaped siphon (1), a solids supply line (2) leading from the system under a higher pressure to the entrance leg (5) of the U-shaped siphon (1), a solids outlet (4) connecting the discharge leg (5) of the U-shaped siphon (1) to the receiving space which is under a lower pressure, and a supply line (6) for supplying entraining gas to the solids contained in the lower portion of the siphon (1), characterized in that the discharge leg (5) is shorter than the entrance leg (3) and a shut-off device (7) for opening and closing the solids outlet (4) of the discharge leg (5) is provided and is biased opposite to the direction of flow by a force which slightly exceeds the force which is exerted on the valve in the direction of flow by the pressure in the system.

Compl .specn. 12 pages. Drgs. 2 sheets

CLASS : 34-A; 148-C. 159580

Int. Cl. : G 03 c 3/00; H 01 j 10/00.

A PROCESS AND APPARATUS (PLANT) FOR PREPARIN FILM OR BAND TYPE MATERIALS HAVING ENHANCED UPPER SURFACE ROUGHNESS AND ANTIBLOCKING PROPERTIES.

Applicant : DIDER ENGINEERING GMBH, OF ALFREDSTRASSE 28, D-4300 ESSEM 1, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. RUDOLF GEIER, 2. ROLF JOEST.

Application No. 563/Cal/84 filed August 13, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

An improved process for preparing film or band type materials having enhanced upper surface roughness and antiblocking properties made of plastic, specially out of polyester, wherein at least one additive which promotes the surface roughness and the antiblocking properties is added while manufacturing the film band in a conventional manner characterised by the improvement in that the said additive is mixed with one part of the polymer, dosed and smelted in a preliminary processing zone in a spiral press subsequently dispersed in a second processing zone with the other or remaining part of the polymer after it has been dosed or in the reverse order as herein described, and subsequently the dispersed mixture thus obtained is pounded with low pressure in a third processing zone and finally treated in the well known way.

Compl. specn. 14 pages. Drg. 1 sheet

CLASS : 52-A. 159581

Int. Cl. : B 41 f 13/00.

SHEET CUTTING AND FOLDING APPARATUS.

Applicant : VED KOMBINAT POLYGRAPH "WERNER LAMBERZ" LEIPZING, OF 7050 LEIPZIG, ZWEINAUNDORFER STR. 59, GERMAN DEMOCRATIC REPUBLIC.

Inventor : 1. KURT SEHAN.

Application No. 586/Cal/84 filed August 22, 1984.

Convention dated 10th May, 1984 (84 11903) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

Sheet cutting and folding apparatus comprising an upstream cylinder provided at its circumference with two diametrically opposite first sheet floding members and with two diametrically opposite sheet cutting and holding devices each comprising a first cutting element and a row of puncture needles and each substantially equidistantly spaced from the two first folding members, and a downstream cylinder having substantially the same diameter as the upstream cylinder and provided at its circumference with two diametrically opposite second sheet folding members and with two diametrically opposite second cutting elements each co-operable with a respective one of the first cutting elements and each substantially equidistantly spaced from the two second folding members.

Compl. Specn 6 pages. Drg. 1 sheet.

CLASS : 107-C. 159582.

Int. Cl. : F 02 f 1/00.

CYLINDER HEAD OF AN INTERNAL COMBUSTION ENGINE.

Applicant : MINSKY MOTORNY ZAVOD, OF MINSK, ULITSA VAUPSHASOVA, 4, USSR.

Inventors : 1. MIKHAIL MIKHAILOVICH GOLUBOVICH, 2. CHESLAV BRONISLAVOVICH DROBYSHEVSKY, 3. SHOLOM YAKOVLEVICH RUBINSHTEIN 4. EDUARD IOSIFOVICH SHPAKOVSKY.

Application No. 640/Cal/84 filed September 14, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A cylinder head of an internal combustion engine comprising : exhaust passages connecting valve seat ports disposed on the side of heat transfer surface of the cylinder head bottom with outlet ports disposed on the side surface of the cylinder head; bosses with drilling to receive valve stems or guide sleeves thereof, these bosses being arranged on an upper wall of the exhaust passages, cavities and passages between the lower wall of the exhaust passages and the bottom of the cylinder head to accommodate a cooling fluid; each of said exhaust passages having in cross-section perpendicular to the heat transfer surface of the cylinder head bottom smoothly connected curvilinear, straight and outlet portions, the letter diverging toward the outlet port, each lower wall of the exhaust passage at a distance from the valve axis equal to the diameter of the valve seat port to the outlet port being arranged at a height of 0.9 to 1.1 the diameter of the valve seat port above the heat transfer surface of the cylinder head bottom, the cross-sectional area of the curvilinear and straight portions of the exhaust passage amounting to between 0.96 and 1.1 the cross-sectional area of the valve seat port, the divergence of the outlet portion of the exhaust passage being ensured by varying the configuration of the upper wall of the exhaust passage, this divergence starting at a distance of between 1.6 to 2.5 the diameter of the valve seat port from the valve axis.

Compl. specn. 15 pages. Drg. 1 sheet

CLASS : 80-K 159583

Int. Cl. : D 21 d 5/00.

DISC SCREEN SHAFT AND METHOD OF AND MEANS FOR MANUFACTURING THE SAME.

Applicant : BELOIT CORPORATION, OF P.O. BOX 350, BELOIT WISCONSIN 53511, UNITED STATES OF AMERICA.

Inventor : 1. JOSEPH BRUCE BIELAGUS.

Application No. 714/Cal/84 filed October 11, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

25 Claims

A disc screen shaft assembly having shaft means with a cylindrical perimeter and an array of concentric annular toothed discs mounted in axially spaced relation on and along said shaft means perimeter, said discs having axially facing surfaces and central shaft-receiving openings defined by annular bevelled edges engaged about said shaft means perimeter; said bevelled edges providing with said shaft means perimeter respective annular grooves; and welding securing said bevelled edges to said shaft means perimeter, and essentially confined to said grooves and free from said disc surfaces.

Compl. specn. 33 pages. Drg. 6 sheets

CLASS : 83-A_1 & 2 159584

Int. Cl. : A 23 l 3/00.

A PROCESS FOR MODIFYING THE ORGANO LEPTIC PROPERTIES OF A FOODSTUFF OR AN INGREDIENT FOR A FOODSTUFF.

Applicant : UNILEVER PLC (FORMERLY KNOWN AS UNILEVER LTD.) OF UNILEVER HOUSE, BLACKFRIARS, LONDON EC4, ENGLAND

Inventor : 1. JOHANNES FRANCISCUS MARIA DE ROOIJ.

Application No. 824/Cal/84 filed November 29, 1984.

Division of Application No. 159/Cal82 dated 10th February, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A process for modifying the organo leptic properties of a foodstuff or an ingredient for a foodstuff, which before consumption has a pH value between 5 and 7 and has to be heated for at least 15 manutes at a temperature of at last 70°C, which comprises heating said foodstuff or an ingredient for a foodstuff in presence of 5-keto-aldohexonic acid or its derivative.

Compl. specn. 17 pages. Drg. Nil

CLASS : 32-$F_{2\,b}$; 55-F_4; 60-$X_{2\,a}$ 159585

Int. Cl. : C 07 d 99/00.

PROCESS FOR THE PREPARATION OF 6-AMINOPENICILLANIC ACID.

Applicant : AMERICAN HOME PRODUCTS CORPORATION, OF 685, THIRD AVENUE, NEW YORK, NEW YORK 10017, UNITED STATES OF AMERICA.

Inventor : 1. PHILIP JUDSON CROSS.

Application No. 715/Cal/85 filed October 10, 1985.

Convention dated 24th September, 1983 (83 25607) U. K.

Division of Application No. 590/Cal/84 dated 27th August, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A process for the preparation of 6-aminopenicillanic acid which comprises incubating an aqueous solution of a natural penicillin, for example benzylpenicillin or phenoxymethylpenicillin, with a water-insoluble, self-immobilized adduct of a penicillinamidase produced by Bacillus megaterium and an aliphatic dialdehyde containing from 5 to 7 carbon atoms optionally adding a multivalent anion after the addition of the dialdehyde to the penicillinamidase.

Compl. specn. 24 pages. Drg. Nil

CLASS : 32-$F_{2\,b}$ 159586

Int. Cl. : C 07 d 35/08.

PROCESS FOR THE PRODUCTION OF (±)-4-OXO-1, 2, 3, 6, 7, 11b-HEXAHYDRO-4H-PYRAZINO (2, 1-a) ISOQUINOLINE DERIVATIVES.

Applicant : KOREA ADVANCED INSTITUTE OF SCEINCE AND TECHNOLOGY, OF 207-43, CHEONGRANG-RI-DONG, DONGDAIMOON-KU, SEOUL, SOUTH KOREA.

Inventors : 1. CHOONG SUP, KIM , 2. NAM JIN, LEE, 3. IOONG HYUP, KIM.

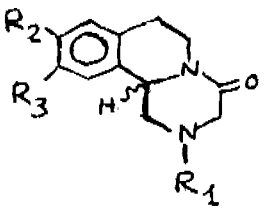
Application No. 438/Cal/85 filed June 11, 1985.

Division of Application No. 823/Cal/83 filed dated 2nd July, 1983.

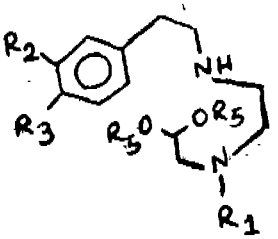
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

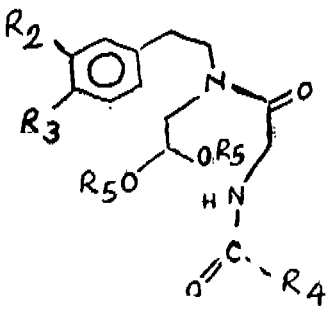
8 Claims

A process for the production of (±)-4-oxo-1, 2, 3, 6, 7, 11b-hexahydro-4H-pyrazino (2, 1-a) isoquinolines of formula I shown in the accompanying drawings,

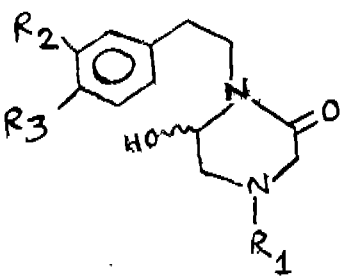


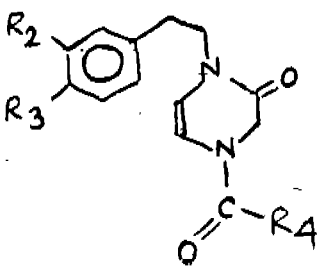
which comprises an intramolecular cylization reaction of a compound of formula II or III of the drawings,





in an acid medium such as described, with or without organic solvent, such as herein described, at a temperature of 0–80°C, as the case may be, for conversion of the compound of the said formula II or III to the compound of the said formula I through intermediates of formula IV or V of the drawings,





wherein in said formulae I, II, III, IV, and V, R_1 represents hydrogen, a lower alkyl or R_4CO; and R_2 and R_3 each independently represent hydrogen, a lower alkyl oralkoxy; and R_4 represents hydrogen, a lower alkyl, cycloalkyl or aryl, R_5 represents methyl, ethyl or methylene.

Compl. Specn. 11 pages. Drg. 2 sheets.

CLASS : 32-E + 144-E_2, 4. 159587

Int. Cl. : C 09 d 3/00, 5/00.

PROCESS FOR THE PREPARATION OF AQUEOUS THERMOSETTING ELECTRICAL INSULATING VARNISHES.

Applicant : DR. BECK & CO. AG, AT 2000 HAMBURG 28, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. UDO REITER, 2. HELMUT LEHMANN.

Application No. 1120/Cal/82 filed September 27, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A process for the preparation of aqueous thermosetting electrically insulating varnishes based on polyester-imides, which are obtained by co-condensing :—

(A) an aromatic tricarboxylic acid monoanhydride,

(B) an aromatic diamine,

(C) a triol containing an isocyanurate ring,

(D) an aliphatic diol and

(E) a cyclic trimerization product of diisocyanate, whose free isocyanate groups are blocked, with

(F) an aromatic dicarboxylic acid or an esterifiable derivative thereof, wherein the components (A), (B), (C) and (F) are employed in the molar ratio of (A) : (B) : (C) : (F) = 2.2 to 1.8 : 1 : 0.5 to 1.5 : 0 to 0.5, component (D) being employed in an amount of from 20 to 200% by weight, based on the total of components (A) + (B) + (C) + (E) + (F), and component (E) being employed in an amount of from 5—15% by weight, based on the total of (A) + (B) + (C) + (D) + (F), at from 120 to 240°C in the first step, water formed in the precondensate formation, blocking agents, which have split off and excess diol are removed by distillation, the precondensate thus obtained is reacted in the second step—either without solvent or with the addition of from 1 to 10% by weight, based on polyester limide precondensate of an organic solvent boiling above 100°C under atmospheric pressure, with ammonia or an organic amine at from 50 to 200°C, the product is then diluted in the third step with fully demineralized water and if necessary, a water-soluble titanium compound as curing catalyst in an amount of from 0.1 to 5% by weight, based on polyesterimide precondensate, is added.

Compl. Specn. 13 pages. Drg. 1 sheet.

CLASS : 98 I. 159588

Int. Cl. : F24j-3/02.

"AN INTERMITTENT FLOW SOLAR COLLECTOR SYSTEM".

Applicant : KAPCOMPANY GENERAL LIMITED, C/O KAPUR SOLAR FARMS, Bijwasan Najafgarh Road, P. O. Kapas Hera, New Delhi-110 037, India, an Indian Company.

Inventor : JAGADISH CHANDRA KAPUR.

Application for Patent No. 500/Del/1983 filed on 23rd July 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

An intermittent flow solar collector system comprising at least one solar collector having an inlet header adapted to be connected to an overhead tank, an outlet header adapted to be connected to a storage tank, valve means provided between sand inlet header and overhead tank, a temperature sensing means comprising a temperature sensor and a temperature controller, said temperature sensor provided between said outlet header and said temperature controller said controller electrically connected to the sensor, said valve means connected to said controller.

Compl. Specn. 6 pages. Drg. 1 sheet.

CLASS : 195 B. 159589

Int. Cl. : F16k 5/02.

"LUBRICATED TAPERED PLUG VALVE".

Applicant : ROCKWELL INTERNATIONAL CORPORATION, a corporation of the State of Delaware, with a principal place of business at 600 Grant Street, Pittsburgh, Pennsylvania 15219, U. S. A.

Inventors : JOHN GRAEME MACLEOD & KENNETH LANE DOUGLAS.

Application for Patent No. 520/Del/83 filed on 28th July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

A lubricated tapered plug valve comprising a body having a central chamber, the walls of said central chamber providing a tapered seat, inlet and outlet passages in said body in communication with said central chamber, a tapered plug having a port therethrough, said plug being mounted for rotation in said central chamber between a valve open position and a valve closed position and for limited axial movement of said plug away from said seat, said port communicating with said inlet and outlet passages in valve open position sealant/lubricant means connected to said plug for introducing a lubricant/sealant film between said seat and said plug; spring means between a small end of said plug and a bottom wall of said body for biasing said plug away from said seat and means for limiting space between said plug and said seat so that thickness of said film of lubricant/sealant is established; said means for limiting comprising a cover on said body at a larger end of said plug, said cover having a stop surface and spacer means of preselected thickness abutting said stop surface for fixing the axial distance said plug may travel away from metal-to-metal contact with said seat under the effect of the thrust of said biasing means.

Compl. Specn. 13 pages. Drgs. 2 sheets.

CLASS : 64B1 159590

Int. Cl. : H02g 15/00, H01r 41/00 & B601 5/00.

"AN ADJUSTABLE ELECTRICAL COUPLING DEVICE"

Applicant : SIMPLEX GF LIMITED, a British Company of Wallacetown Mining Products, Heathfield Road, Ayr KA8 9SR, Scotland.

Inventor : HIGH CAIRNS IRELAND.

Application for Patent No. 533/Del/83 filed on 3rd August, 1983.

Convention date 26th August, 1982/8224586/(U. K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

An adjustable electrical coupling device comprising first and second electrical conductors each carrying respective first and second members of an electrically conductive coupling wherein :—

(a) said first conductor has an externally screw threaded part;

(b) said first coupling member has an external clamping surface of curved configuration; an internal screw-threaded bore in which the first conductor is received in an axially adjustable manner and a slot extending outwardly from said bore; and

(c) said second coupling member comprises two clamping elements having respective recesses which face towards one another and define clamping surfaces which engage the clamping surface of the first coupling member over a range of positions of engagement, and releasable fastening means which engage said clamping elements and draw the clamping elements towards one another into engagement with said first coupling member and thereby on the one hand clamp said elements onto the first coupling member to hold said surfaces at any selected position of engagement such as to permit relative angular adjustment between the first and second coupling members about an axis of revolution and on the other hand simultaneously clamp the first coupling member onto said threaded part of the first conductor to hold said threaded part at any selected axial position.

Compl. Specn. 9 pages. Drgs. 3 sheets.

CLASS : 128 G. 159591

Int. Cl. : A61m 1/00 & G10b 3/06.

"A HYDROCEPHALUS SHUNT VALVE FOR DRAINAGE OF EXCESS FLUID FROM THE BRAIN".

Applicant : GHANSHYAM DAS AGGARWAL, an Indian national of Biryaganj Shahjahanpur 242 001, U. P. India.

Inventor : GHANSHYAM DAS AGGARWAL.

Application for Patent No. 545/Del/83 filed on 8th August, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A hydrocephalus shunt valve for drainage of excess fluid from the brain comprising an elongate housing having an inlet and outlet end, a first and second valve member disposed within said housing in a spaced relationship to each other for closing and opening said inlet and outlet, characterized in that each said valve member comprises a support with a pasage extending therethrough, a diaphragm snuggly disposed within said housing, said diaphragm being secured to a hollow rod extending within the passage of said support, a plurality of openings provided in the said rod for the discharge of fluid therefrom.

Compl. Specn. 7 pages. Drg. 1 sheet.

CLASS : 198 D. & 62 EB. 159592

Int. Cl. : D 0 6 f-7/02 & 37/20.

"AN ELECTRICALLY OPERATED WASHING MACHINE".

Applicant : KHAITAN ELECTRICALS LIMITED of 46C, J. L. Nehru Road, Calcutta-700 071, India, an Indian Company.

Inventor : HANS RAJ JAIN.

Application for Patent No. 614/Del/1983 filed on 06th September, 1983 (post dated to 06th January, 1984).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

7 Claims

A washing machine comprising a cabinet or housing, a wash tub within the cabinet or housing, an impeller on one side of the wash tub an opening in the cabinet or housing for the introduction and removal of clothes into and from the wash tub, an electric motor and drive means between the motor and the impeller, characterised in that the motor is mounted above the cabinet or housing remote from the wash tub, said motor being mounted within an enclosure formed by an extension of a side wall of the cabinet or housing and the top wall of the cabinet or housing.

Provisional Specn. 6 pages.

Compl. Specn. 10 pages. Drg. 1 sheet.

CLASS : 32 E 159593

Int. Class : C 08 f — 3/00.

AN IMPROVED PROCESS FOR POLYMERIZING UNSATURATED CARBOXYLIC ACIDS.

Applicant : THE B. F. GOODRICH COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK, OF 277 PARK AVENUE, NEW YORK, NEW YORK 10017, U.S.A. AND WITH BUSINESS OFFICES AT 500 SOUTH MAIN STREET, AKRON, OHIO 44318, U.S.A.

Inventors : EUGENE JOSEPH SEHM.

Application for Patent No. 619/Del/1983 filed on 07 Sep 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

11 Claims

An improved process for polymerizing unsaturated carboxylic acids, the improvement comprising polymerizing olefinically unsaturated carboxylic acids containing at least one activated carbon-to-carbon olefinic double bond and at least one carboxyl group in a polymerization media consisting essentially of methylene chloride in the presence of a free radical forming catalyst of the kind such as herein described and a surface active agent having an HLB value greater than 12 selected from the group consisting of sorbitan polyoxyethnchylene (n) monoesters and polyoxyethylene (n) alkyl ethers wherein n is a number from 18 to 28 and the acid radical of the ester and the alkyl group of the ether contains from 8 to 22 carbon atoms.

(Complete Specifications 18 Pages) (Drawings one sheet)

CLASS : 32 E. 159594

Int. Class : C 08 f — 3/00.

AN IMPROVED METHOD FOR POLYMERIZING UNSATURATED ACID.

Applicant : THE B. F. GOODRICH COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK OF 277 PARK AVENUE, NEW YORK, NEW YORK 10017, U.S.A. WITH BUSINESS OFFICES AT 500 SOUTH MAIN STREET, AKRON, OHIO 44318, U.S.A.

Inventors : ROBERT YEATS LOCHHEAD AND JOHN CHRISTOPHER GARCIA.

Application for Patent No. 620/Del/1983 filed on 07 Sep 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

11 Claims

An improved method for polymerizing unsaturated acids in mineral spirits, the improvement comprising in polymerizing olefinically unsaturated carboxylic acids containing at least one activated carbon to carbon olefinic double bond and at least one carboxyl group in a polymerization media consisting essentially of mineral spirits in the presence of a free radical forming catalyst of the kind such as herein described, (1) sorbitan ester of the kind such as herein described, (2) glycerol or alkylene glycol ester non-ionic surface active agents having H.L.B. values of less than 10, and (2) a long chain monohydric aliphatic alcohol containing 8 to 22 carbon atoms of the kind such as herein described.

(Complete specifications 21 pages) (Drawings one sheet)

CLASS : 32 B. 159595

Int. Class : C O 7 C — 15/00.

A PROCESS FOR THE MANUFACTURE OF BENZENE AND XYLENES ADMIXTURES FROM ALKYL AROMATIC HYDROCARBONS.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : PAUL RATNASAMY
SUNEETA BALVANT KULKARNI
NAMDEV RAMJI MESHRAM
SURYAKANT GANESH HEGDE

Application for Patent No. 628/Del/1983 filed on 09th September, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A process for the manufacture of benzene and xylene admixtures from alkyl aromatic hydrocarbons with 7 to 9 carbon atoms comprising a single step transalkylation of the hydrocarbons by subjecting the same to hydrogenation in the presence of, catalyst consisting of a mixture of amorphous, crystalline alumina, silica and aluminosilicates and oxides of transition metals like iron, cobalt, nicklet or platinum with the chemical formula $R^1 x R^2 yN+$ whercin R^1 and R^2 are alkyl radicals like ethyl, propyl or butyl and R^1 is not the same or R^2 the value of x and y vary from between 1 to 3 and may or may not be the same and the sum of values is equal to 4 and separating, if required, the benzene and xylene by known methods.

(Complete specification 13 pages)

CLASS : 195 B. 159596

Int. Class : F 16 K — 17/00.

A PILOT-CONTROLLED SAFETY VALVE.

Applicant : ANDRE GEMIGNANI, A FRENCH CITIZEN, OF AVENUE ALLENDE, MARTIGUES, BOUNCHES-DU-RHONE, FRANCE.

Inventor : ANDRE GEMIGNANI.

Application for Patent No. 629/Del/1983 filed on 09th September, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

A pilot-controlled safety valve for the protection of a vessel by venting pressure therefrom at a predetermined maximum level, said valve comprising; a valve housing connected to said vessel and formed with a valve passage communicating therewith; a valve seat formed along said passage; a valve member movable along an axis toward and away from said seat for selectively blocking and unblocking said passage; a support element carrying said valve member and guided in said housing for movement along said axis; a metal bellows sealingly connected to said support element and to said housing, said support element forming a command chamber with said housing; and means connecting said command chamber to said vessel, thereby enabling the displacement of said support element and said valve member, said support element being stepped and having a large section turned toward said seat and a small section turned away from said seat, said housing having a pair of sleeves each axially guiding one of said sections, said bellows being received between said sleeves.

(Complete specification 11 pages. Drawing 3 sheets)

CLASS : 62E, 197. 159597

Int. Cl. : D06f 29/00, 9/00, A471 15/00, B67c 1/00.

DISH WASHER CUM WASHING MACHNIE.

Applicant : SAT DEV GUPTA, TAGORE NAGAR-B, CIVIL LINES. LUDHIANA-141001 (PUNJAB), AN INDIAN NATIONAL.

Inventor : SAT DEV GUPTA.

Application for Patent No. 635/DEL/1983 filed on 14th September 1983.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

10 Claims

A dish washer cum washeing machine comprising a body having a lower portion provided with the chamber for housing a two pole electric meter with two different speeds; the said body further having an upper portion with a water chember; the said water chamber having at its base means for releasably securing impeller to the electric motor; the said impeller having a substantially domed shape cross-section and protruding along its vertical axis; the protruded portion of the said impeller having means to receive at its upper end the handle of a cleaning brush removable attached thereto; the said impeller being fully covered by a removable cylinderical cover as that only the cleaning brush remains exposed to the utensils sought to be cleaned.

Complete Specification 7 pages. Drawing 1 sheet

CLASS :32E 159598

Int. Cl. : C 08 f 1/36, 27/03.

PROCESS FOR THE PREPARATION OF COPOLYMERS OF ETHYLENE WITH AT LEAST ONE OTHER I-ALKENE.

Applicant : STAMICARBON B.V., A DUTCH COMPANY OF P.O. BOX 10, 6160 MC GELEEN, THE NETHERLANDS.

Inventors : 1. GEORGES GERARD EVENS 2. EMANUEL MARIA JOSEF PIJPERS AND 3. RENE HUBERT MARIA SEEVENS.

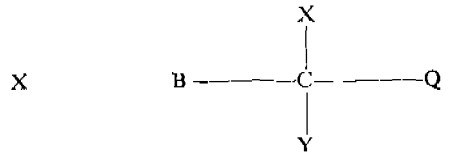
Application No. 162/MAS/84 filed March 13, 1984.

Division of Application No. 826/CAL/81 dated 22nd July, 1981.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

10 Claims

Process for the preparation of copolymers consisting of 25—85% by wt. of ethylene, 15—75% by wt. of at least one other 1-alkene and optionally upto 20% by wt. of a polyunsaturated compound in a solution polymerization with application of a catalyst system containing a compound of a metal from sub-groups IV-VI of the periodic system and a compound of a metal from groups I-III of the periodic system, in which at least one hydrocarbon group is bound directly to the metal atom via a carbon atom, characterized in that the polymerization is carried out at a temperature of —40 to 100°C and pressure of 1 to 50 bars in the presence of halogen—containing compounds of the general formula



where B is a phenyl group which may contain one or two substituent halogen atoms or alkyl groups, or is a thienyl, furyl, pyrrollyl, N alkylpyrollyl or pyridyl group, which group is bound to the carbon atom directly or via a carbonyl group,

X is a chlorine or bromine atom,

Y is a chlorine, bromie or hydrogen atom or a hydrocarbon group with 1-8 carbon atoms, and

Q is a group having one of the formulae 1 or 2 of the accompanying drawings, in which X is a chlorine or bromine atom.

Comp. speen. 15 pages. Drg. 1 sheet

CLASS : 98G. 159599

Int. Cl. : F. 28 f 3/00.

HEAT EXCHANGER.

Applicant : MODINE MANUFACTURING COMPANY.

Inventors : DONALD JEROME FROST.

Application No. 177/MES/84 filed March, 17, 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

12 Claims

A heat exchanger for exchanging heat between two fluids comprising :

A plurality of heat exchange units in stacked relation, each unit comprising a pair of spaced metallic plates joined together and sealed at their peripheral edges, and a metallic turbulator structure between said plates and in engagement therewith, the turbulator structure comprising two substantially symmetrical fins in back to back contact with each other and each having a multiplicity of slit formed strands extending from their respective faces into contact with the adjacent one of said plates; and a housing containing said stack including inlet and outlet means operatively associated with said stack.

Compl. speen. 17 pages. Drgs. 3 sheets

CLASS : 152 F. 159600

Int. Cl. : C 08 g 35/00.

A PROCESS FOR PRODUCING A RESIN FOAM BY AQUEOUS MEDIUM.

Applicant : CHUO KAGAKU CO. LTD., A JAPANESE BODY CORPORATE, OF 5-1, 3-CHOME, MIYAJI, KOUNESU-SHI, SAITAMA-KEN, JAPAN.

Inventors : SHIGEMASA SUZUKI. 2. TOSHIYUKI TAKAI.

Application No. 186/MAS/84 filed March 21, 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

20 Claims

A proces for producing a resin foam by an aqueous medium, which comprises :

(a) mixing a resin with an aqueous medium such as herein described to make the aqueous medium adhere and be held by the resin compound comprising parous agglomerated particles resulting from particle melt-adhesion of thermoplastic resin particles of at least one resin being selected from the group consisting of olefinic resins, diene resins, vinyl resins acrylic resins, styrene resins, polyamide resins and polyester resins; coated with a fine hydrophilic powder selected from cereal powders, wood flour, powders of hydrophilic resins, powders of metal and powders of inorganic minerals; having a solubility in water of not more than 10 gms/ litre at 25°C, and which does not substantially melt at the melting temperature of the resin particles, said powder being embedded in the resin particles exposing partly their surfaces;

(b) melt-kneading the resin compounds mixed with the aqueous medium under an elevated pressure as herein described so that the evaporation of the aqueous medium is substantially inhibited; and

(c) thereafter releasing the kneaded resin compound from the pressurized state so as to foam it.

Compl. specn. 30 pages.

CLASS : 32 F_8 (c)/ 159601

Int. Cl. : C 07 c 27/00, 29/00.

A PROCESS FOR PRODUCING ALCOHOL COMPRISING CONTACTING HYDROGEN AND CARBON MONOXIDE IN THE PRESENCE OF A CATALYST.

Applicant : THE DOW CHEMICAL COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, OF 2030 DOW CENTRE, ABBOTT ROAD, MIDLAND, MICHIGAN 48640, U.S.A.

Inventors : GEORGE J. QUARDERER, GENE A. COCHRAN.

Application No. 192/MAS/84 filed March 23, 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

19 Claims

A process for producing alcohols comprising contacting hydrogen and carbon monoxide in a mole ratio of 0.7 to 3 at a temperature of 240°C to 325°C and pressure 1500 psig (10.3 Mpa) to 400 psig (27.6 Mpa) at an hourly space velocity of 300 to 5000 hrs $^{-1}$ in the presence of a catalyst comprising :

(1) at least one element selected from the group consisting of molybdenum, tungsten, and rhenium, in free or combined form such as herein defined;

(2) in promoter comprising an alkali or alkaline earth element, in free or combined form such as herein defined; and optionally

(3) a support;

condensing the product gases to a temperature of below 20°C and pressure of below 100 psig to obtain an alcohol fraction boiling in the range of motor gasoline in at least about 20 per cent Co., free carbon selectivity.

Compl. specn. 43 pages.

CLASS : 174 F. 159602

Int. Cl. : F 16 f 9/24, 9/18.

A VIBRATION DAMPER WITH DAMPING CONTROL MEANS.

Applicant : DONALD MAXWELL CULCEY, OF SHRAPNELL STREET, BUDERIM, QUEENSLAND, 4556, AUSTRALIA, AN AUSTRIALIAN CITIZEN.

Inventor : DONALD MAXWELL CULIEY.

Application No. 199/Mas/84, filed 26th March, 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

8 Claims

A vibration damper comprising :

a damger body connectable to a first member :

closed cylinder in the body.

a piston means, movable in the cylinder, dividing the cylinder into two variable volume chambers, and having a piston red extending from the body and connectable to a second member;

a pair of fluid passages in the body interconnecting the two chambers and provided with respective one-way valve means to provide unidirectional flow, in opposite directions, of the damping fluid between the chambers, and independently adjustable valve means in each passage to control the flow of the damping fluid through the passages and thereby control the damping of the piston means in each direction.

Compl. specn. 13 pages. Drgs. 2 sheets

CLASS : 4A1, 4, 147 C, E, I 159603

Int. Cl. : B 64 d 47/00.

THERMAL HOUSING OF A COCKPIT VOICE RECORDER.

Applicant : ELECTRONICS CORPORATION) OF THERMAL HOUSING OF A COCKPIT VOICE CHERLAPALLI, HYDERABAD-500762, INDIA.

Inventors : 1. MADAN MOHAN NIGAM, 2. SOMESH MUKHERJEE AND 3. KAMBAMPATI VENKATA RATANAM.

Application No. 210/MAS/84 filed March 29, 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

6 Claims

A housing for a tape mechanism of a cockpit voice recorder comprising top thermal insulation cover and a bottom thermal insulation cover to form a housing, said tape mechanism disposed within said housing, a base plate for supporting said bottom insulation cover charcterised in that each of said top and bottom insulation cover consists of a shell having a water absorbent material packed therein, said material being saturated with water.

Compl. specn. 8 pages Drg. 1 sheet

CLASS : 32-F1+3 159604

Int. Cl. : C 07 d 33/00.

A PROCESS FOR THE PREPARATION OF QUINOLONE CARBOXYLIC ACID DERIVATIVES.

Applicant : KYORIN PHARMACEUTICAL CO. LTD., OF NO. 5, KANDA SURUGADAI 2-CHOME, CHIYODA-KU, TOKYO, JAPAN.

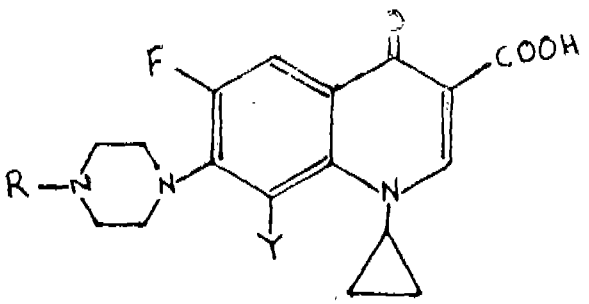
Inventors : 1. TSUTOMU IRIKURA 2. SEIGO SUZUE 3. SATOSHI MURAYAMA 4. KEIJI HIRAI 5. TAKAYOSHI IZHIZAKI.

Application : No. 352/Mas/84 filed May 14, 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

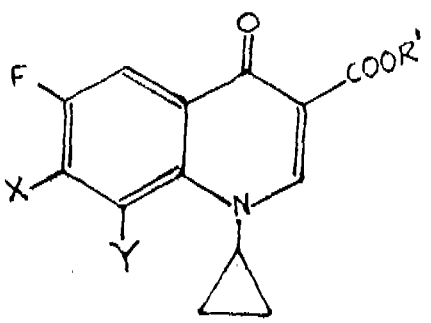
2 Claims

A process for the preparation of 1-cyclopropyl-6-fluoro-1, 4-dihydro-4-oxo-7(1-piperazinyl or 4-methyl-1-piperazinyl)-8-substituted-quinoline-3-carboxylic acid or its salts having the structural formula (I) shown in the accompanying drawings



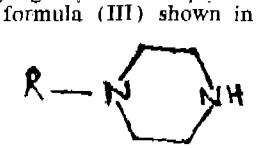
(I)

wherein R and Y are defined as rereinafter, which comprises condensing a compound having the structural formula (II) shown in the drawings



(II)

wherein R is hydrogen atom or lower alkyl group having C_1-C_3 atoms, X is halogen atom Y is fluorine atom chlorine atom or methyl group with a piperazine derivative having the structurall formula (III) shown in the drawings



(III)

wherein R is hydrogen atom or methyl group, the condensed product is hydrolized by the method such as herein described to the quinoline carboxylic acid and if desired, converting the said compound to its salts by known methods.

Compl. specn. 15 pages. Drg. 1 sheet

CLASS :32 F 1 159605

Int. Cl. : C 07 c 147/00.

A PROCESS FOR THE PREPARATION OF BIS (TRICHLOROMETHYL) SULFONE.

Applicant : SOUTHERN PETROCHEMICAL INDUSTRIES CORPORATION LTD., 97 MOUNT ROAD, MADRAS-600032, TAMIL NADU, INDIA, AN INDIAN COMPANY.

Inventor : DR. RENGASAMY PALANIAPPAN.

Application No. 576/Mas/84 filed August 6, 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

6 Claims

A process for the preparation of bis (trichloromethyl) sulfone comprising the steps of adding dimethyl sulfoxide to an aqueous solution of sodium hypochlorite while maintaining the temperature of the reaction mixture below 65°C; heating the said reaction mixture or reflexing the same thereafter to raise and maintain the temperature of the said reaction mixture between 40° to 105°C to yield bis (trichloromethyl) sulfone, the said reaction mixture being maintained alkaline throughout the reaction and separating the bis (trichloromethyl) sulfone by known methods.

Compl. specn. 7 pages.

CLASS : 32 F 2 C 159606

Int. Cl. : C 12 d 13/06, & C 07 c 101/24.

PROCESS FOR PRODUCING L-LYSINE BY FERMENTATION.

Applicant : KYOWA HAKKO KOGYO CO. LTD., A JAPANESE COMPANY, OF 6-1, OHTEMACHI IT-CHOME, OHIYODA-KU, TOKYO, JAPAN.

Inventors : 1. TOSHIHIDE NAKANISHI, 2. TOMOKI AZUMA, 3. TOSHIHIKO HIRAO, 4. KIYOJI HATTORI, 5. MINORU SAKURAI

Application No. 767/Mas/84 filed 12th October 1984.

Division of Application No. 939/Cal/82, dated 10th August 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

6 Claims

A process for producing L-lysine, which comprises culturing a microorganisms belonging to the genus Corynebacterium and having both an ability to produce L-lysine and a resistance to antibiotics of two or more selected from the group consisting of penicillin G, cephalesporin C, streptomycine, dihydrostreptomycine, rifampicin, chloramphenicol, tetracycline spiramycine, erythormycine, Kanamycine, kasugamycine, mitomycine C, actinomycine D, polymixin, collistin, linocomycine, gentamicin, sagamicin, fortimicin and oleandomycine or a resistance to at least one of purine analog and pyrimidine analog in a nutrient medium containing a carbon source, a nitrogen source and an inorganic material at 20 to 40°C for 1 to 6 days at a pH ranging from 3 to 9, forming and accumulating L-lysine in the resulting culture liquor, and recovering the L-lysine therefrom by using one or more of the conventional methods such as ion exchange resin treatment, concentration, adsorption and salting-out.

Compl. specn. 19 pages. Drg. Nil

CLASS : 55 E 4 159607

Int. Cl. : CO 7 C 103/52 A 61K 17/00

Co 7 d 93/36.

A METHOD FOR PREPARING AN ANTIDIURETIC COMPOSITION CONTAINING 1-DEAMINO-8-D-ARGININE VASOPRESSIN.

Applicant : FERRING SERVICE CENTER.

Inventor : HELMER HAGSTAM.

Application No. 902/Mas/84 filed 21st November 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

4 Claims

A method for preparing antidiuretic composition by combining 50 to 200 micro gms. of 1-deamino-8-D-arginine Vasopressin with 20 to 100 m. gms. of micro-crystalline cellulose, 1 to 10 m. gms. of cross-linked carboxymethyl-cellulose, known binders and fillers in a form suitable for oral administration.

Complete specification 9 pages.

CLASS : 62-B; 62-C$_1$ 159608

Int. Cl. : D 06 p 1/00, 1/42, 3/18.

A PROCESS FOR DYEING A FIBER MATERIAL COMPOSED OF AN ACID-MODIFIED POLYMER OR COPOLYMER OF ACRYLONITRILE.

Applicant : HOECHST AKTIENGESELLSCHAFT OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. MANFRED HANNKE. 2. REINHARD MOHR., 3. KURT HOHMANN.

Application No. 763/Cal/81 filed July 9, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims

A process for dyeing a fiber material composed of an acid-modified polymer or copolymer of acrylonitrile having been freshly shaped by a conventional wet spinning method, wherein the undyed fiber following the fiber-forming step and subsequently of removing the bulk of the non-aqueous spinning solvent, either before or during or after the concluding fiber stretching operation, is exposed in the thus available swollen gel-like state and in a liquid aqueous dyeing medium, to the effect of an aqueous solution of at least one of such a dyestuff with the use of which the dyeing operation is occurring by an Acid-Base Reaction between the dyestuff and the fiber preferably under weakly acid conditions at a temperature below the boiling point of the treating bath, and left in the latter for a dwelling period being sufficient to cause dyestuff fixation, which comprises employing dyestuffs exhibiting a basic behavious towards the acid groups of the fiber substance and containing in the chromophoric molecular portion more than one grouping of said basic type preferably biscationic dyes capable of entering into salt formation with the fiber under the applied dyeing conditions.

Compl. specn. 51 pages. Drg. 13 sheets

CLASS : 33-A & D 159609

Int. Cl. : B 22 d 11/06.

SLIDING FIELD INDUCTOR WITH ORIENTATED FLUX FOR AGITATION ROLLERS IN THE CONTINUOUS CASTING OF SLABS.

Applicant : CEM-COMPAGNIE ELECTRO-MECANIQUE, OF 12, RUE PORTALIS-F-75008, PARIS, FRANCE.

Inventor : JEAN DELASSUS.

Application No. 31/Cal/82 filed January 7, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

Sliding field inductor for the agitation rollers (6, 7) in the continuous casting of slabs (1), comprising a grooved shaft carrying metallic sheets (15) that are plane and parallel to the axis of the shaft, this latter and the sheets being slotted with a series of annular recesses (21) spaced out along the shaft (17) and accommodating the circular induction coils (22), characterized in that the shaft is fixed in position in a manner known per se relative to said agitation rollers and is made from a non-magnetic metal which is a good conductor of electricity and contains a longitudinal groove (16) of large cross section accommodating a single pack of magnetic sheets which of themserves constitute the magnetic core (15) of the inductor, whilst the shaft provides a screen for the magnetic flux originating from the induction coils (22), said magnetic core having a free face (20) oriented towards the adjacent face of the said slab (1), the remaining magnetic core surface area being surrounded by said shaft (17), whereby the magnetic flux is oriented in a direction towards the slab (1).

Compl. specn. 10 pages. Drg. 3 sheets

CLASS : 145-B & D 159610

Int. Cl. : D 21 d 3/00.

AN APPARATUS FOR HIGH SPEED SIZE APPLICATION.

Applicant : BELOIT CORPORATION, BELOIT, WISCONSIN 53511, U.S.A.

Inventor : ROBERT JACOB ALHFID.

Application No. 73/Cal/72 filed January 18, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

Apparatus for the application of a sixing composition to a travelling web comprising a rotating roll, means for directing the web into tangential contact with the rotating roll, a reservoir for sizing composition, means for delivering sizing composition from the reservoir to the line of contact between said roll and said web thereby to form a pond of sizing composition at said line of contact, means for applying a reduced pressure to said pond thereby to remove some of the sizing composition from said pond, and means for recirculating the sizing composition withdrawn from said pond to said reservoir.

Compl. specn. 12 pages. Drg. 2 sheets

CLASS : 85-Q 159611

Int. Cl. : F 27 b 7/00.

IMPROVED IN OR RELATING TO A METHOD FOR THE REDUCTION OF METAL OXIDES IN A ROTARY KILN AND A SYSTEM FOR USE IN SAID METHOD.

Applicants : (1) ACOS FINOS PIRATINI S.A., OF RUA CANCIO GOMES, 127 PORTO ALEGRE, BRAZIL; (2) METALI GESELLSCHAFT AKTIENGESELLSCHAFT, OF REUTERWEG 14, 6000 FRANKFURT AM MAIN, WEST GERMANY.

Inventor : CLOVIS LIUZ MARTIN.

Application No. 484/Cal/82 filed April 30, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

Improvements in or relating to a method for the reduction of metal oxides in a rotary kiln which comprises subjecting said material to thermal treatment in the presence of hot gases in the rotary kiln and admitting oxygen containing or combustible gases into the rotary kiln through its shell by means of shell pipes nozzle blocks at various locations distributed over the length of the rotary kiln, characterized by the improvement that the said thermal treatment is carried out substantially at uniform temperature profile and wherein a constriction is provided in each supply duct of the oxygen containing or combustible gas, said constrictions being provided in the supply ducts leading to the shell pipes or nozzle blocks, transducer means being further provided secured to the kiln for pneumatically receiving the gas pressures tapped behind said constrictions, for measuring differential pressures between said tapped gas pressures and a static pressure and for converting said differential pressures to electric signals, slip rings are secured to the kiln and connected to said transducer, stationary control station being further provided and connected to said slip rings by stationary taps for receiving said electrical signals produced by said transducer, said electrical signals being used in said control station to indicate the volumetric gas ranges flowing through said supply ducts and to control said gas rates to maintain uniform temperature profile wit hinthe ikln.

Compl. specn. 15 pages. Drg. 1 sheet

CLASS I 198-B 159612

Int. Cl. : B 03 d 1/02.

AN IMPROVED PROCESS FOR FROTH FLOTATION OF ORES.

Applicant : BEROL KEMI AB, OF BOX 851, S-444 01 STENUNGSUND, SWEDEN.

Inventors : 1. KARL MARTIN EDVIN HELLSTEN, 2. ANDERS WILLIAM KLINGBERG.

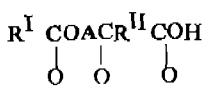
Application No. 553/Cal/82 filed May 17, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

An improved process for froth flotation of ores containing calcium phosphate minerals comprising the step of preparing an aqueous pulp of the ore, conditioning the pulp, cleaning the pulp by froth flotation in one ore more steps, and recovering a concentrate of the calcium phosphate mineral, characterized in that :

(a) an esterified dicarboxylic acid having the formula



in which R^I is an aliphatic hydrocarbon group with 7–21 carbon atoms, R^{II} is a hydrocarbon radical with 2–6 carbon atoms preferably the group –CH=CH– or the phenylene group $-C_6H_4-$ and A is an alkyleneoxy group with 2–4 carbon atoms, is added before or during the conditioning step in an amount of 10—also added 1500 grams per ton of ore if so desired a water-insoluble polar secondary collector reagent is and

(b) the cleaning by froth flotation is carried out in the presence of said esterified dicarboxylic acid.

Compl. specn. 11 pages. Drg. 1 sheet

3—87GI/87

CLASS : 146-C 159613

Int. Cl. : G 02 b 23/00.

AFOCAL TELESCOPE.

Applicant : BARR & STROUD LIMITED, OF CAXTON STREET, ANNIESLAND, GLASGOW G13 1HZ, SCOTLAND.

Inventors : 1. IAIN ALEXANDER NEIL, 2. MICHAEL OWEN LIDWELL, 3. WILLIAM McCREATH.

Application No. 771/Cal/82 filed July 1, 1982.

Convention date 1st July, 1981 (81/20274) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

An afocal telescope comprising an objective system and an eyepiece system having a common optical axis, the objective system being arranged to accept radiation in the infrared waveband from a distant scene and to form a real image thereof within the telescope the eyepiece system being arranged to receive radiation from said image and to provide at a real pupil a magnified view of the scene, wherein said objective system has an f-number of not more than 2.0 and said dyepiece system is formed by a triplet of three powered lens elements each being made of amaterial having a refractive index of not less than 2.370 and a dispersive V-value of not less than 142. two of said eyepiece lens elements being of positive power, the eyepiece lens element adjacent the objective system having a power value of around zero due to its thickness and having a concave refractive surface towards the objective system and a convex refractive surface remote from the objective system, said convex surface being separated from the adjoining refractive surface of the central lens element of the triplet by an air space which in the axial direction is substantially zero on said axis and which progressively increases in magnitude as the distance off axis increases.

Compl. specn. 33 pages. Drg. 2 sheets

CLASS : 128-G & K 159614

Int. Cl. : A 61 b 17/00.

NON-METALLIC, BIO-COMPATIBLE HEMOSTATIC CLIPS WITH INTERLOCKING LATCH MEANS.

Applicant : ETHICON INC., AT SOMERVILLE, NEW JERSEY, UNITED STATES OF AMERICA.

Inventors : 1. MADHUSUDAN JOSHI, 2. ROBERT JAMES CERWIN, 3. JOHN RUDOLPH MENGES, 4. ROBERT WILLIAM MERICLE, 5. WILLIAM JOHN ZWASKIS.

Application No. 883/Cal/82 filed July 29, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

A hemostatic clip comprising first and second leg members joined at their proximal ends by a resilient hinge means and terminating at their distal ends in latch means, each leg member having a vessel clamping inner face in opposition to a vessel clamping inner face of the other leg member, said latch means including means for preventing relative lateral movement between the vessel clamping inner faces of said leg members when the clip is in the closed postiion.

Compl. specn 18 pages. Drg. 2 sheets

CLASS : 176 I 159615

Int. Cl. : F 22 b 35/00.

A STEAM GENERATOR FOR BURNING PULVERIZED FUEL.

Applicant : COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT, UNITED STATES OF AMERICA.

Inventor : 1. THOMAS BERTON HAMILTON.

Application No. 1045/Cal/82 filed September 8, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A steam generator for burning pulverised fuel having a mill for pulverizing the fuel, a furnace wherein the fuel is burned thereby generating hot flue gas, steam heating surface disposed downstream of the furnace in the flow path of the hot flue gas leaving the furnace whereby heat is transferred from the hot flue gas thereby cooling the flue gas traversing said steam heating surface, a particle collector disposed downstream of the furnace wherein particles entrained in the flue gas are removed therefrom, and a fan disposed downstream of said heating surface and said particle collector for boosting the pressure of the cooled clean flue gas before it is vented to the atmosphere wherein said fuel is fed to the mill for pulversing the said fuel at a controlled rate in response to load demand on the steam generator :

means for recirculating a portion of the cooled clean flue gas leaving said booster fan to the mill;

means for mixing ambient air into the recirculated flue gas before introducing the gaseous mixture thereof into the mill;

means for conveying the fuel pulverized in the mill to the furnace entrained in said gaseous mixture of recirculated flue gas and air;

means for controlling the volume flow rate of said gaseous mixture to the mill in response to the feed rate of fuel to the mill; and

means for controlling the volume flow rate of air mixed with the recirculated flue gas to maintain the oxygen level in said gaseous mixture entering the mill at a level of at least 12% by volume.

Compl. specn. 14 pages. Drg. 1 sheet

CLASS : 172-D_4 159616

Int. Cl. : D 01 h 11/00, 13/28; A 61 m 11/00; F 24 f 5/00.

A HUMIDIFIER FOR LOCAL CONTROL OF RELATIVE HUMIDITY PARTICULARLY AT A JUTE SPINNING FRAME.

Applicant : INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION, OF 17, TARATOLA ROAD, CALCUTTA-700 088, WEST BENGAL, INDIA.

Inventors : 1. RAMENDRANATH ADITYA, 2. AMALENDU SARKAR.

Application No. 1054/Cal/82 filed September 10, 1982.

Complete Specification left on 19th August, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A humidifier for local control of relative humidity, particularly at a jute spinning frame, comprising an endless moving strip C of water-absorbing material, disposed around or in the vicinity of the locality e.g. that of a jute spinning frame, the relative humidity whereof is to be controlled, said strip being adapted to be moved longitudinally a source of water through which the said strip is adapted to be passed, and a source of pressurised air disposed above the said strip for causing water vapour to be produced continuously and introduced in the air surrounding the said locality.

Compl. specn. 15 pages. Drg. 1 sheet

CLASS : 85 J 159617

Int. Cl. : F 27 d—21/00.

APPARATUS FOR DRIVING AN OSCILLATING SPOUT FOR DISTRIBUTION OF CHARGING MATERIAL IN A BLAST FURNACE.

Applicants : PAUL WURTH S.A. OF 32 RUE D'ALSACE, LUXEMBOURG, G.D. OF LUXEMBOURG, A COMPANY ORGANIZED UNDER THE LAWS OF LUXEMBOURG.

Inventor : EDOUARD LEGILIE AND EMILE LONARDI.

Application for Patent No. 367/Del/1983 filed on 01 June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

2 Claims

Apparatus for driving an oscillating spout for distribution of charging material in a blast furnace said spout being capable of pivoting, by means of a control arm having the same degree of liberty as the spout, about two orthogonal axes, comprising a driving rod connected at its one end to two independent driving means for turning said driving rod about its longitudinal axis and being axially displaced, the other end of said driving rod being articulated to an intermediate lever, said intermediate lever being connected by two journals to a connecting block, said connecting block being provided with a boring in which the head of the control arm engages coaxially whereby axes of the boring and of the journals are orthogonal but offset in relation to one another, so that a longitudinal displacement of the driving rod changes the angle of inclination of the control arm in relation to a central axis identical with the axis of said driving rod and that a rotational of said rod causes a conical precession movement of said control arm about the said central axis, said control arm being connected to a transmission device and said transmission device being connected to said spout to translate and transmit the movement of the said control arm to the said spout.

Compl. specn. 9 pages. Drg. 1 sheet

CLASS : 127I [LXV(1)], 85C [XXXI] 159618

Int. Cl. : F 27 d 3/00.

APPARATUS FOR DRIVING AN OSCILLATING SPOUT THE ORE TO THE FURNACE.

Applicants : PAUL WURTH S.A. OF 32, RUE D'ALSACE, LUXEMBOURG, G.D. LUXEMBOURG. A COMPANY ORGANISED UNDER THE LAWS OF LUXEMBOURG.

Inventor : EDOURAD LEGILIE.

Application for Patent No. 368/Del/1983 filed on 1st June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

9 Claims

Apparatus for driving an oscilating spout to supply the ore to a furnace and capable of pivoting about two orthogonal axes under the action of a pivoting control arm having the same degree of liberty as the spout, comprising a control mechanism acting on said control arm which in turn is adapted to move said spout, a transmission device adapted to translate the movement of the control arm to said spout, wherein the control mechanism consists of a driving rod adapted to turn about its longitudinal axis and undergoing axial desplacement and connected for this purpose to two independent driving means, the end of this rod being articulated to an intermediate lever articulated in its turn via a universal joint to the end of the control arm whereby a longitudinal displacement of the control rod changes the angle of inclination of the control arm in relation to a central axis identical with the axis of the said rod and that a rotation of the said rod causes the

control arm to move about the said central axis, wherein the said universal joint being connected to a movable means of which the action tends to reduce the angle formed by the longitudinal axis of the intermediate lever and the longitudinal axis of the control arm when this angle reaches 180°.

(Complete specification 11 pages) (Drawings 5 sheets)

CLASS : 99 E. 159619

Int. Class : B65d 1/00.

"IMPROVED THERMALLY INSULATED CONTAINER".

Applicant : L' AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L' EXPLOITATION DES PROCEDES GEORGES CLAUDE, a French body corporate of 75, quai d' Orsay-75007, Paris, France.

Inventors : PIERRE PELLOUX GERVAIS & BERNARD SIMON.

Application for patent No. 385/Del/83 filed on 7th June 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

(7 Claims)

An improved thermally insulated container of the type comprising an inner vessel (1) connected to an outer vessel (22) by an adhesive bonded smooth walled neck tube (10), characterised in that each end of the neck tube (10) is connected to the respective vessel (1, 22) by adhesive placed in an interstitial space provided between said end of the neck tube and a frustoconical collar (6.26) of said vessel.

(Complete specification 7 pages Drawing 3 sheets)

CLASS : 20B. 159620

Int. Class : B43k 29/00.

"AN IMPROVED DISPOSABLE PENCIL STRUCTURE."

Applicant : Rajesh Sharma, A-32, Friends Colony East, New Delhi-110 065. An Indian National.

Inventor : Rajesh Sharma.

Application for Patent No. 391/Del/1983 filed on 23rd June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

(22 Claims)

A disposable pencil comprising in combination a generally tubular housing, an eraser fixed to one end of said housing, a pencil lead contained at least partially within said housing and exially movable therein, a sharpening chamber at the opposite end of said housing from said eraser, a sharpener contained within said sharpening chamber said sharpener being radially movable relative to said lead in response to axial movement of said lead relative thereto, means for sealing the opposite ends of said sharpening chamber so as to retain lead filings therein while still permitting one end of said lead to be retracted into said sharpening chamber for sharpening of said one end and then extended from said chamber to provide an exposed writing instrument at the end of said pencil, and advance and retract mechanism including a pusher plate mounted upon one side of said housing, said mechanism being manually operable for moving said lead axially within said housing.

(Complete specification 21 pages) Drawing 3 sheets.

CLASS : 194B & 188. 159621

Int. Class : C 23c 17/00.

"A METHOD FOR COATING SUBSTRATES".

Applicant(s) : THE STANDARD OIL COMPANY, an Ohio corporation, having a place of business at Patent & License Division, Midland Building, Cleveland, Ohio, 44115, U.S.A.

Inventor(s) : VLADIMIR VUKANOVIC (NMN), SUSANNAH MARIE BUTLER, GEORGE BRUNO FAZEKAS AND JOHN ROBERT MILLER.

Application for Patent No. 411/Del/1983 filed on 17th June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

(18 Claims)

A method for coating substrates comprising the steps of gnerating a non-LTE arc plasma at a pressure between 0.1 and 3 atmospheres, said plasma being generated by the flow of a current of from 2 to 10 amperes between a cathode and an anode proximate to the cathode, a voltage of from 20 volts to 200 volts being impressed across the cathode and the anode; introducing a coating material into the arc plasma; positioning a substrate material proximate the arc plasma; whereby activated species of said coating material formed by the arc plasma are deposited on the substrate as a coating.

(Complete specification 24 pages) (Drawing 2 sheets)

CLASS : 32 E 159622

Int. Cl. : C 08 g 17/12, 39/06.

"A PROCESS FOR THE PREPARATION OF POLYESTER BLENDED RESIN".

Applicants : SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH, 19 University Road, Delhi-110007, India, an Indian Institute registered under the Societies Act.

Inventor : DATTAPRASAD ACHYOT DABHOLKAR, GEETA UNNIKRISHNAN AND PRAKASH SINGH.

Application for Patent No. 443/Del/83 filed on 1st July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

(5 Claims)

A process for the preparation of a flame retardant resin which comprises in adding het acid resin to dibromoneopentyl glycol based polyester resin present in the ratio of n : m and where m is 1 and n is at least 1, said het acid resin and dibromoneopentyl glycol based polyester resin having singularly the halogen content required for flame retardancy and a gardener colour index value of 2 to 3.

(Complete specification 6 pages).

CLASS : 32 E 159623

Int. Class : C 08 g 17/12, 39/06.

"AN IMPROVED PROCESS FOR THE PREPARATION OF TETRACHLOROPHTHALIC ANHYDRIDE BASED POLYESTER RESIN".

Applicants : SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH, 19 University Road, Delhi-110007, India, an Indian Institute registered under the Societies Act.

Inventor : DATTAPRASAD ACHYOT DABHOLKAR, GEETA UNNIKRISHNAN AND PRAKASH SINGH.

Application for Patent No. 444/Del/83 filed on 1st July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

(4 Claims)

An improved process for the preparation of tetrachlorophathalic anhydride based polyester resin which comprises in refluxing a mixture of tetrachlorophthalic anhydride, propylene glycol and maleic anhydride to a temperature of between 145 to 175°C characterised in that the said step of refluxing is carried out in the presence of carbon dioxide for a period till the required acid value of 40 + 2 mg KOH/gm of the resin is obtained.
(Complete specification 8 pages)

CLASS : 32E. 159624

Int. Class : C 08g 17/12, 39/06.

"A PROCESS FOR THE PREPARATION OF DIBROMONEOPENTYL GLYCOL BASED POLYESTER RESINS".

Applicant : SHRI RAM INSTITUTE FOR INDUSTRIAL RESEARCH, 19 University Road, Delhi-110007, India, an Indian Institute.

Inventor(s) DATTAPRASAD ACHYOT DABHOLKAR, GEETA UNNIKRISHNAN & PRAKASH SINGH.

Application for Patent No. 445/Del/1983 filed on 1st July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

(5 Claims)

A process for the preparation of dibromoneopentyl glycol based polyester resins which comprises in adding dibromoneopentyl glycol, phthalic anhydride and maleic anhydride to a reaction vessel, heating said reactants characterized in that the reactant are heated to a temperature of between 145 to 175°C in the presence of an inert gas for a period till the reaction medium has an acid value of 40±2 mg KOH/gm.
(Complete specification 8 pages)

CLASS : 4 A. 159625

Int. Class : B64c 11/00 & B32b 1/00, 1/10.

"HUB PLATE FOR A HELICOPTER ROTOR, METHOD OF MANUFACTURING IT AND A HELICOPTER ROTOR HUB EQUIPPED WITH SAID HUB PLATES".

Applicant : SOCIETE NATIONALE INDUSTRIELLE AEROSPATIALE, a company organised and existing under the laws of France, of 37 boulevard de Montmorency, Paris, France.

Inventors : RENE LOUIS MOUILLE & JEAN LUC MICHEL LEMAN.

Application for patent No. 464/Del/83 filed on 6th July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

(21 Claims)

A hub plate in particular for a helicopter rotor hub and for securing to the top portion of a rotor hub at right angles to its axis of rotation so as to connect rotor blades to rotor shaft, the plate comprising a laminated disc constituted by layers of fibre cloth having high mechanical strength, characterized in that a frame of the disc is constituted by aligned layers of cloth, wherein weft or warp of the cloth extends radially in the direction that corresponds to the direction of centrifugal force acting on said plate when in use, the aligned layers being at core portion of the laminated disc and, at least at a surface of the laminated disc in a peripheral portion of the disc, and in that the disc is enclosed by a belt of parallel threads consisting of fibres having high mechanical strength.

(Complete specificatign 36 pages Drawing 4 sheets)

CLASS : 24D 159626

Int. Class : F16d 65/14.

"A DISC BRAKE DEVICE".

Applicant : POCLAIM HYDRAULICS, a French company, of Boite postale No. 12, 60410 Verberie, France.

Inventors : LOUIS BERNARD BIGO & PATRICK EDMOND RAMOUSSE.

Application for patent No. 474/Del/83 filed on 13th July, 1983.

Convention date 11th July, 1983/2123502B/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

(11 Claims)

A disc brake device comprising first and second relatively rotatable members and a device for braking relative rotation of the first and second members, the device comprising a housing rotationally connected to the first member; a cover for closing the housing in a fluid tight manner so as to define therewith a chamber, at least part of the said cover being axially movable with respect to the first member at least one brake disc rotationally connected to one of said members and located inside the chamber; at least one brake lining rotationally connected to the other of said members and located inside the chamber, the brake disc or discs and the brake lining or linings being alternately located, resilient biasing means located between said part of the cover which is axially movable and one of said members and applying a permanent bias to said movable part of the cover tending to urge the brake linings into engagement with the brake discs; and a fluid tight seal betwen the second member and the assembly of the housing and the first member, said seal closing the chamber in a fluid tight manner whereby brake release fluid under pressure when selectively supplied to the chamber to act on the movable part of the cover in opposition to the biasing means and thereby relieve the brake discs and linings of the biasing effect of the biasing means.

(Complete specification 13 pages Drawing 4 sheets)

CLASS : 98-G. 159627

Int. Cl. : F 28 d 7/00.

HEAT EXCHANGER FIN ELEMENT WITH DOG-BONE TYPE PATTERN OF CORRUGATIONS.

Applicant : CHROMALLOY AMERICAN CORPORATION, OF 120 SOUTH CENTRAL AVENUE, ST. LOUIS MISSOURI 63105, U.S.A.

Inventors : 1. WAYNE G. BLYSTONE, 2. GERALD W. LEMMON.

Application No. 1147/Cal/82 filed October 4, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

An improved fin member adaptable for use in a fin and tube type heat exchanger, said heat exchanger being adapted for fluid flow in a given direction there through, said fin

member comprising a generally planar member having oppositely facing surfaces associated therewith and a plurality of tube openings extending therethrough, each of said tube openings being adaptable for receiving a tubular member therethrough said fin member having a plurality of corrugations extending substantially over its planar surfaces, said corrugations comprising respective pairs of Y-shaped projections positioned longitudinally between respective pairs of said tube openings, each of said pair of Y-shaped projections being arranged in opposed relationship such that one of said Y-shaped projections lies adjacent to and opens towards one of said pair of tube openings and the other of said Y-shaped projections lies adjacent to and opens towards the other of said pair of tube openings, each of said tube openings having a Y-shaped projection facing said opening on each opposite thereof, said Y-shaped projections being positioned in spaced apart relationship parallel to but non-continuous with the Y-shaped projections located about adjacent tube openings, said spaced apart Y-shaped projections forming channels therebetween adaptable for operatively guiding at least a portion of the fluid flow across said fin member and around said tube openings.

Compl. Specn. 17 pages. Drg. 2 sheets.

CLASS : 206-E. 159628

Int. Cl. : H 03 h 1/00.

LINEARIZING CIRCUIT.

Applicant : THE BABCOCK & WILCOX COMPANY, AT 1010 COMMON STREET, NEW ORLEANS, LOUISARON LOUISE ZIMMERLIN.

Inventors : 1. BARRY JEFFREY YOUMANS, 2. SHARON LOUIS ZIMMERLIN.

Application No. 1174/Cal. 82 filed October 12, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A circuit for linearizing a logarithmic outpue range comprising :

biasing circuit means for zeroing one end point of the output range;

scaling circuit means connected to said biasing circuit means for adjusting a second point on the output range; and

converting means connected to said scaling circuit means for changing the logarithmic output to a linear output.

Compl. Specn. 13 pages. Drg. 1 sheet.

CLASS : 32-A1 159629

Int. Cl. : C 09 b 62/08, 62/74.

PROCESS FOR PREPARING A WATER-SOLUBLE, SYMMETRICAL OR ASYMMETRICAL 1 : 2 CHROMIUM COMPLEX OF 1 : 2 COBALT COMPLEX OR 1 : 2 CHROMIUM AND 1 : 2 MIXED COMPLEX AZO COMPOUND.

Applicant : HOECHST AKTIENGESELISCHAFT OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

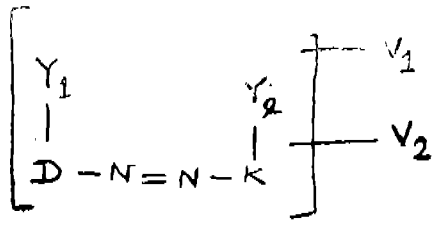
Inventors : 1. FRITZ MEININGER, 2. HERMANN FUCHS.

Application No. 1315/Cal/82 filed November 10, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

A process for preparing a water-soluble, symmetrical or asymmetrical 1 : 2 chromium complex or 1 : 2 cobalt complex azo compound of a monoazo compound of the formula (1) of the accompanying drawings



Formula 1

or its 1 : 2 chromium and 1 : 2 cobalt mixed complexes, in which

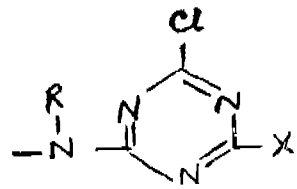
Y_1 is a group which is capable of metal complex formation and which is bonded to D in ortho-position relative to the azo bridge;

Y_2 is a group, which is capable of metal complex formation and which is bonded to K in ortho-position relative to the azo group;

D is the radical of a diazo component to which the fiber-reactive group V_1 defined below or the fibre-reactive group V_2 defined below is bonded;

K is the radical of a coupling component to which the fibre-reactive V_1 defined below or the fiber-reactive group V_2 defined below or the fiber-reactive group V_2 defined below is bonded;

V_1 is a group of the formula (2a)



Formula (2a)

which is bonded to D or K and in which R is a hydrogen atom or an alkyl group of 1 to 4 carbon atoms and

X is an optionally substituted amino group or an optionally etherified hydroxy group or a thioether group;

V_2 is a group of the formula (2b)

Formula 2(b)

which is bonded to D or K and in which

W is a direct bond, or a group of the formula

—NH—, —N(Alk)—, —CH_2— or —CH_2—CH_2—

in which Alk denotes a lower alkyl group;

Z is the vinyl, the β-sulfatoethyl, the β-thiosulfatoethyl, the β-chloroethyl or the β-acetoxyethyl group which comprises reacting a metal-free compound of the general formula (1) defined above, or a mixture of two different compounds of the above general formula (1), with a chromium—or cobalt—donating agent or a mixture thereof.

Compl. Specn. 75 pages. Drg. 13 sheets

CLASS : 32-F$_2$ c. 159630

Int. Cl. : C 07 c 127/04.

A CYCLIC UREA SYNTHESIS PROCESS.

Applicant : TOYO ENGINEERING CORPORATION, OF NO. 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : 1. KATSUMI KAGECHIKA, 2. HIDETSUGU FUJII, 3. SHIGERU INOUE, 4. AKITO FUKUI.

Application No. 1331/Cal/82 filed November 15, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A cyclic urea synthesis process which comprises the steps of (a) reacting carbon dioxide with a stoichiometrically equivalent or excess amount of ammonia in a urea synthesis autoclave at a pressure and temperature effective to synthesize urea, and obtain a crude urea synthesis melt containing unreacted carbon dioxide and ammonia, (b) separating unreacted carbon dioxide and ammonia from the crude urea melt, (c) converting the crude urea synthesis melt to an aqueous urea solution, (d) successively absorbing at least part of the unreacted carbon dioxide and ammonia so separated with an absorbate, and (e) recycling said absorbate to the urea synthesis autoclave, and wherein the process further comprises : periodically removing a small portion of the stream circulating in one of the steps (a to e) as a sample; quantitatively analyzing the ammonia content and ammonium carbamate content in the said sample, and adjusting one or more of the operational parameters of the sampled step, in response to the values measured for said ammonia and ammonium carbamate contents, thereby to maintain the operation of the sampled step in a desired state.

Compl. Specn. 27 pages. Drg. 2 sheets.

CLASS : 155-A. 159631

Int. Cl. : B 32 b 27/00.

METHOD FOR THE PRODUCTION OF A LAMINATE WEB.

Applicant : AMERICAN CAN COMPANY, OF AMERICAN LANE, GREENWICH, CONNECTICUT-06836-3610, UNITED STATES OF AMERICA.

Inventor : SCOTT W. MIDDLETON.

Application No. 1496/Cal/82 filed December 28, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

In a method for the production of a laminate web suitable for use in producing containers for degenerative products, the steps including : depositing by a method as herein described upon at least one surface of an aluminum foil substrate at least a monomolecular layer of a polyacrylic acid chromium complex primer, as an aqueous alcoholic solution heating said coated substrate to substantially dry said primer; extrusion coating a film of a copolymer of ethylene upon at least one of said primed surfaces of said foil, said copolymer having pendant carboxcylic acid or ester, groups in its molecule; and cooling the laminate to provide said web.

Compl. Specn. 15 pages. Drg. Nil

CLASS : 126-B. 159632

Int. Cl. : E 21 b 49/00.

INDUCTION LOGGING SYSTEMS.

Applicant : SCHLUMBERGER LIMITED, AT 277 PARK AVENUE, NEW YORK, NEW YORK 10017, U.S.A.

Inventors : 1. RICHARD THOMAS SCHAEFER, 2. THOMAS DANIEL BARBER, 3. CLINTON HARVEY DUTCHER.

Application No. 1511/Cal/82 filed December 31, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

An induction logging system for generating an induction log from conductivity measurements of sub-surface formation taken by an induction logging tool at various depths in a bore-hole in the earth, the logging tool having a sonde which has a spatial domain sonde response function which varies with the conductivity of the sub-surface formations being investigated and is characterized by a main lobe and non-zero sidelobes, said system reducing the unwanted contributions in each measurement from formation currents flowing in formations spaced apart from each measurement depth (shoulder effect), the system characterized by :

(a) a means for positioning the logging tool at various depths in the borehole, said positioning means including a wireline cable for transmitting signals to and from the tool, the tool including a means for generating an in-phase component for each conductivity measurement where the sonde response function transforms the formation conductivity distribution into the in-phase components;

(b) a processing unit responsive to the conductivity measurements for processing the measurements to reduce shoulder effect, said processing unit including, a deconvolution filtering means responsive to the in-phase component measurements for generating deconvolved conductivity measurements in which shoulder effect has been reduced, the filter response function of said deconvolution filtering means derived from the sonde response function obtained at zero formation conductivity by truncating the Fourier transform of the zero conductivity sonde response function at a frequency less than the frequency at which the transformed function first goes to zero and selecting a target transfer function so that the inverse Fourier transform of the ration of the target transfer function to the truncated transformed zero conducivity sonde response function, when convolved with the sonde response function, produces a system response function having minimum sidelobes; and

(c) A recorder responsive to a said processing unit and said positioning means for recording the deconvolved measurement as the log of the system.

Compl. Specn. 52 pages. Drg. 10 sheets.

CLASS : 155, B, C & D. 159633.

Int. Cl. : C 09 j 3/14.

"A DIMENSIONAL HEAT RECOVERABLE ARTICLE AND THE METHOD FOR PRODUCING THE SAME".

Applicant : RAYCHEM CORPORATION, a Constitution Drive, Menlo Park, California 94025, U.S.A., a Company organised according to the laws of California.

Inventor : 1. KENNETH BRAIN PITHOUSE, 2. ALLEE GAUGUIN, 3. L. ERIEAGE. 4. THOMAS ANDREW KRIDL. 5. JAMES THOMAS.

Application for Patent No. 2/Mas/84, filed on 2nd January 1984.

Convention Date on 6th January, 1983/8300218/U.K.
22nd July, 1983/8319855/U.K.
16th August 1983/8322004/U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

38 Claims

A heat-recoverable article such as herein defined, the dimensional configuration of which is recoverable on application of heat, the said article being made of a composite structure comprising atleast one heat-recoverable fabric made of fibres that will recover when heated, the said fibres having a recovery strass (Y) of at least 5×10^{-2} MP a at a temperature above their recovery temperature; and a polymer such as herein described having an elongation/temperature profile such that there exists a temperature (T), which is at or above the recovery temperature of the fibres, at which temperature the polymer material has an elongation to break of greater than 20% and 20% secant modulus (X) of at least 10^{-2} MP a (measured at a strain rate of 300% per minute), and at which temperature the inequality (1) is satisfied

$$\frac{X}{Y}\left(\frac{1-R}{R}\right) \text{ is less than one (1)}$$

Wherein R is the mean effective volume fraction of heat recoverable fibres in the composite structure along a given direction based on the total volume of the composite structure, or relevant portion thereof.

(Complete Specification 45 pages) (Drawing 1 sheet)

CLASS : 6 B 2 & 40 H. 159634

Int. Cl. : C 01 b 2/01.

"PROCESS FOR OBTAINING NATURAL OR SYNTHESIS GASES SUBSTANTIALLY EXEMPT FROM ACIDIC GASES".

Applicant : SNAMPROGETTI S.p.A. a company organized under law of the Italian, Republic of Corse Venezia 16-Milan, Italy.

Inventors : 1. LUIGI GAZZI. 2. ROBERTO D'AMERA. 3. ROBERTO DI CINTIO. 4. CARLO RESCALLI. 5. ALESSANDRO VETERE.

Application No. 28/Mas/84 filed on 18th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

32 Claims

1. A process for obtaining natural or synthesis gases substantially exempt from acidic gases, characterised by comprising the steps of

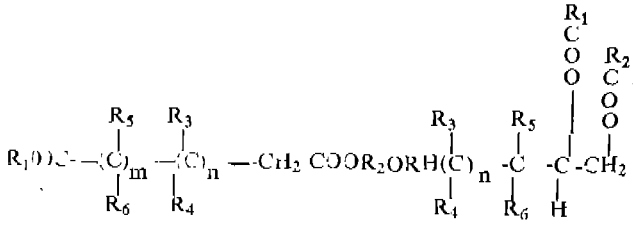
(a) cooling the natural or synthesis gas to be purified to a temperature between 10°C to 60°C to condense part of the acid gases contained in said gas;

(b) feeding the cooled and partly condensed gas to an absorption column in order to reduce the acid gas content to the required value of a few parts per million of CO_2 and H_2S;

(c) regenerating the solvent or solvents used in the acid gas absorption in the absorption column by one or more expansion stages from which mainly the useful components coabsorbed in stage (b) are recovered as herein stated, then by a further expansion stage or stages from which mainly acid gases are evolved as herein stated the regenerated solvents then being recycled to the absorption column, the solvents used being chosen from low molecular weigh esters, alcohols and ethers of the following classes:

—alcohol esters of general formula R_1COOR_2 where R_1 and R_2 indicate alkyl groups of 1 to 4 carbon atoms, which can be the same or different, in which one or more hydrogen atoms can be substituted by alcohol groups;

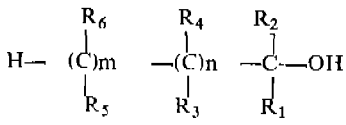
—glycol esters of general formula



in which R_1 and R_2, which can be the same or different, indicate alkyl groups of 1 to 3 carbon atoms, R_3, R_4, R_5, R_6, which can be same or different, indicate either alkyl groups of 1 to 3 carbon atoms or hydrogen atoms, and m and n are whole numbers which can assume the value 0 or 1;

—cyclic esters (lactones) of formula (1) of the accompanying drawings in which R_2, R_3, R_4, R_5 which can be the same or different, are alkylene groups in which one or more hydrogen atoms can also be substituted by alkyl, alcohol or other groups;

—alcohols of general formula



in which R_1, R_2, R_3, R_4, R_5, A_6 which can be the same or different, are either alkyl groups of 1 to 3 carbon atoms or hydroxyl groups or hydrogen atoms, and m and n are whole numbers which can assume the value 0 or 1;

—cyclic ethers such as formula (2) of the accompanying drawings in which R_2, R_5,R_6, which can be the same or different, are alkyl groups in which the hydrogen can also be substituted by alkyl or methoxy groups, R_3 can be an oxygen atom or an alkylene group in which the hydrogen can also be substituted by alkyl or methoxy groups, R_4 can be as R_3, or can be lacking in the case of a five atom ring;

—ethers of general formula

$$R_1—O—CH_2—(R_3)n—CH_2—O—R_2$$

where R_1 indicates in alkyl group of 1 to 4 carbon atoms, R_2 indicates hydrogen or an alkyl group of 1 to 4 carbon atoms or a hydrogen atom, R_3 is either an alkylene group or (CH_2—O—CH_2), and n is a whole number which can assume the value 0 or 1;

—ethers of general formula R_1—O—R_2, in which R_1 and R_2, which can be the same or different are alkyl groups of 1 to 4 carbon atoms in which one or more hydrogen atoms can be substituted by alcohol groups;

—ester-ethers, i.e., compounds containing both the functions, of formula :

$$(R_4—O)n—R_1—COOR_2(OR_3)m$$

in which R_3 and R_4, which can be the same or different, indicate alkyl groups of 1 to 4 carbon atoms, R_2 indicates an alkylene group of 1 to 4 carbon atoms, R_1 in the same as either R_2 or R_3, and m and n are whole numbers which can assume the value 0 or 1.

Complete specification 24 pages. Drawing 3 sheets.

CLASS : 40 H. 159636

Int. Cl. B 01 d 53/16.

PROCESS FOR OBTAINING NATURAL OR SYNTHESIS GASES SUBSTANTIALLY.

EXEMPT FROM ACIDIC GASES.

Applicant : SNAMPROGETTI S.p.A., a company organized at under the laws of the Italian Republic of Corse Venezia 16, Milan. Italy.

Inventors : 1. LUIGI GAZZI, 2. ROBERTO D' AMERA, 3. ROBERTO DI CINTIO, 4. CARLO RESCALLI, 5. ALESSANDRO VETERE.

Applicant No. 30/Mas/84 filed January 19, 1984

Appropriate office for opposition p oceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

18 Claims

A process for obtaining natural or synthesis gases substantially exempt from acidic gases, comprising the steps :

(a) selectively removing HS from the natural or synthesis gas in a first absorption column with at least one regeneratable solvent having a high selectivity for H_2S;

(b) cooling the substantially H_2S free gas to condense part of the CO_2 contained in said gas;

(c) Selectively removing Co_2, which remains uncondensed from the cooled and partly condensed gas in a second absorption column with at least one regeneratable solvent having a high selectivity for CO_2 in order to produce said essentially acid gas free product; and

(d) regenerating the solvent or solvents used in the CO_2 and H_2S absorption; the solvent or solvents used in the CO_2 and H_2S absorption being selected from the group consisting of low molecular weight esters, alcohols and ethers.

(omplete Specification 20 Pages) (Drgs. 2 Sheets)

CLASS. 45 G. 2 159636

Int. Cl. : E 03 d 1/07.

A FLUSHING CISTERN

Applicants & Inventors : 1. ARUN SINHA, 2. NARENDRA GHORPADE, 3. VANKIPURAM RAMAMURTHY RAMARATHNAM, 4. VENPAKKAM COMANDUR SUNDARA DESIKAN, 5. VIJAY GHORPADE, 6. KOTA VENKATACHALAPATHY RAMANATH AND 7. RANGANATHAN SRINIVASAN, ALL OF 53/1 KALAKSHETRA ROAD, MADRAS 600 041, TAMIL NADU, INDIA, INDIAN NATIONALS.

Application No. 34/MAS/84 filed 21 January 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

6 Claims

(1) A flushing cistern comprising a cistern body accommodating a siphon having an inlet and an outlet limb, the inlet column of the siphon being open to water within the cistern body while the outlet column thereof communicates with the discharge opening of the cistern body; and an inlet ressing the siphon under the level of water in the cistern body characterised in that the portions of the inlet and outlet limbs of the siphon near the siphon-bend thereof are movably attached respectively by known means to the remaining portions of the said limbs, the siphon having resilient means tending to retain it in its normal position; an actuating member is disposed adjacent to the siphon near the siphon-bend thereof, the said member, when actuated, depressing thesiphon under the level of water in the cistern body to constrain the water within the siphon to occupy the space over the siphon-bend and to thus commence the siphonic action, the said actuating member, when released, permitting the siphon to resiliently revert to its normal position, while continuing its siphonic action.

(Complete Specification 9 Pages) (Drg. 1 Sheets)

CLASS : 182 A. 159637

Int. Cl. : C 13 d 1/06.

"PLANT COMPRISING A BATTERY OF SUGAR-CANE MILLS"

Applicant : "FIVES—CAIL BABCOCK, of 7, rue Montalivent 75383, Paris Cedex 08, France, a French Body Corporate.

Inventor : MONSIEUR HEAN-PIERRE GEOREET.

Application No : 38/Mas/84 filed on 21st January 1984.

Division of Application No : 805/Cal/79, dated the 3rd August 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

4 Claims

A plant comprising a battery of sugar-cane mills for the extraction of juices from sugar-cane, each of said mill including inlet and outlet rollers mounted on a frame and an upper roller resiliently pushed towards the inlet and outlet rollers, and permeable conveyers place between the mills and in which plant the juices extracted by pressure between the upper roller and the inlet and outlet rollers of each mill, with the exception of the first, are used for the imbition of the bagasse feeding the previous mill, considering the direction in which the bagasse is moving forward, at least one of said mills being a four roller mill including a fourth roller placed in front of the upper roller, above the inlet roller, and resiliently pushed towards the upper roler. adjustable steps limiting the movement of the fourth roller towards the upper roller, and a trash plate between the fourth roller and the inlet roller, characterized in that the main collector of each mill, with the exception of the first, is connected by a pipe to a weir located above the conveyer feeding the previous mill, considering the direction in which the bagasse is moving forward, or the said mill, the other collector of the four roller mill is connected by a pipe to a weir located above the conveyer feeding the said four roller mill, and a trough located beneath the conveyer feeding the said four roller mill or a following mill is connected by a pipe to a weir located above the conveyor feeding the said four roller mill.

(Complete Specification 15 Pages) (Drawings 6 Sheets)

CLASS : 328 & 56 F 159638

Int. Cl. : C 07 c 1/00.

PROCESS FOR CONVERSION OF COAL OR PEAT TO GASEOUS HYDROCARBONS AND VOLATILE DISTILLATES.

Application & Inventor : DR. ROLLAN SWANSON, A CITIZEN OF THE UNITED STATES OF AMERICA. C/O CHEMROLL ENTERPRISES, INC., 100 WALL STREET, NEW YORK, NEW YORK 10005, UNITED STATES OF AMERICA.

Application No. 42/MAS/84 filed January 24, 1984.

Division of Application No. 861/CAL/80 dated 26th July, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

10 Claims

A proces for conversion of coal or peat to gaseous hydrocarbons and volatile distillates comprising the steps of :

reacting the coal or peat having oxyzen, sulfur or nitrogen present in bound from with a alkali metal hydrosulfide, a sulfide or a polysulfide of an alkaline metal or mixaures thereor hydrates thereof at a temperature of 50°C to 450°C, in the presence of water, and recovering volatile liquid distillates the and hydrocarbon gases by known methods.

(Compl. Specn. 34 pages) (Drg. 1 sheet)

1983.

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CLASS : 127 G. 159639

Int. Cl. : F 16 c 1/00.

A VARIABLE—SPEED BELT TRANSMISSION APPARATUS.

Applicant : KABUSHIKI KAISHA TOYODA JIDOSHOKKI SEISAKUSHO, A JURIDICAL PERSON ORGANIZED AND EXISTING UNDER THE LAWS OF JAPAN, OF 1, TOYODA 2-CHOME, CITY OF KARIYA, AICHI PREFECTURE, JAPAN.

Inventors : TATEMI FUKUDA. KIWAMU NIIMI.

Application No. 56/Mas/84 filed January 31, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

6 Claims

A variable—speed belt transmission apparatus comprising a pair of driving and driven A pulleys arranged with their axes of rotation extending substantially in parallel to each other at least one of which pulleys having portions of varying diameters, a flat belt formed in an endless loop and stretched between said driving and wriven pulleys, and a pair of rotatable rollers disposed so as to flank the edge of a straight running portion of the flat belt between the pulleys and be movable for shifting the flat belt in axial direction of the said pulleys wherein said pair of shifting rollers are so arranged that the lines which geometrically generate the peripheries of the rotatable shifting rollers, on the side where said generating lines are contactable with the edges of the flat belt, form an angle with a plane passing perpendicular to said axes of rotation of the pulleys in such a direction that the generating lines of the shifting rollers are spaced further apart from each other toward the inside of the loop of said flat belt.

(Complete Specification 15 Pages) (Drawings 2 Sheets)

CLASS : 127C 159640

Int. Cl. : F 16 h — 9/24

TOOTHED RUBBER BELT.

Applicant : MITSUBOSHI BELTING LIMITED.

Inventors : SATOSHI MASHIMO, MASAYUKI TANAKA, YOSHIO YAMAGUCHI, TAKASHI KINOSHITA.

Application No. 106/Mas/84 filed 18th February 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

3 Claims

A toothed rubber blet inside which a tooth profile is formed at a given pitch and in which a tension member is fitted in a pitch line, characterised in that a canvas is woven of yarn of polyamide fiber with limiting viscosity number more than 1.30, where in weft of said canvas is woolly processed yarn and disposed longitudinally of the belt and laid, attached thereon.

(Complete Specification 8 Pages) (Drg. 1 Sheet)

CLASS : 35 C 159641

Int. Cl. : C 04 b 19/06.

METHOD OF PREPARING A MODIFICATION SULFUR CONCRETE.

Applicant : THE UNITED STATES OF AMERICA, REPRESENTED BY THE SECRETARY, U.S., DEPARTMENT OF COMMERCE NATIONAL TECHNICAL INFORMATION SERVICE 5285 PORT ROYAL ROAD, SPRINGIFIELD VIRGINIA, 22161, UNITED STATES OF AMERICA.

Inventors : 1. WILLIAM C. McBEE. 2. THOMAS A. SULLIVAN.

Application No. 118/Mas/84 filed on 21st February, 1984. Division of Application No. 1185/Cal/80, filed on 16th October 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

4 Claims

A method of preparing a modified sulfur concrete comprising : heating a known concrete aggregate to a temperature upto 230°C, and mixing 93 to 20 wt % of the heated aggregate with 7 to 80 wt % of a modified sulfur cement :

said modified sulfur cement being prepared by polymerizing a mixture of 99 wt % to 55 wt % sulfur and 1 wt % to 45 wt % of modifier at an elevated temperature between 115°C to 160°C.

said modifier containing 85 wt % to 37 wt % cyclopentadiene oligomer and 15 wt % to 63 wt % cyclopentadiene and or dicyclopentadiene.

(Complete Specification 28 Pages) (Drawings 4 Sheets)

CLASS : 50 E 2 159642

Int. Cl. : F 25 b 1/04, & 31/02.

HERMETIC MOTOR COMPRESSOR.

Applicant : TECUMSEH PRODUCTS COMPANY, OF 100 EAST PATTERSON STREET, TECUMSEH, MICHIGAN 49286, UNITED STATES OF AMERICA, A CORPORATION OF THE STATE OF MICHIGAN, UNITED STATES OF AMERICA.

Inventor : DONALD LAWRENCE KESSLER.

Application No. 142/Mas/84, filed March 7, 1984.

Divisional of Application No. 425/Cal/81, filed on April 22, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

9 Claims

A hermetic motor compressor unit comprising : an outer housing, a stator disposed within the outerhousing and including a central opening therein, said stator including an upper surface, a lower surface and sides defining a peripheral surface, an electrical field winding disposed on said stator, a crankcase supported on the upper surface of said stator and including a cylinder a crankshaft rotatably mounted in said crankcase and including a rotor secured thereto, said rotor being disposed in the central opening of said stator and rotatable about an axis extending through said opening, a piston slidably received in said cylinder and connected to said crankshaft, at least three elongated connecting elements extending upwardly through said stator and distributed around the stator central opening near the peripheral surface of said stator and secured to said crankcase, said connecting elements including heads protruding beyond the lowersurface of said stator, at least three upwardly extending coil springs secured to said outer housing, a mounted spud secured to each of said connecting element heads and in abutment with the lower surface of said stator, said spud comprising a downwardly extending retainerfinger disposed axially in a respective said coil spring and retained therein, said spud further comprising a socket in which the head of the respective connecting element is received, said socket being eccentric relative to the finger and the axis of the respective spring whereby the major portions of the spuds are disposed radially outward of said heads relative to the axis of the rotor.

(Complete Specification : 34 Pages) (Drawings 5 sheets)

CLASS : 32F 2(a) & 32 F1. 159643

Int. Class : C 07 c — 87/66.

A PROCESS FOR PREPARING ANTIDEPRESSANT DERIVATIVES OF CIS-4-PHENYL-1, 2, 3, 4-TERAHYDRO-1-NAPHTHALENAMINE.

Applicant : PFIZER INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventors : 1. WILLARD McKOWAN WELCH, 2. BILLIE KENNETH KOE, 3. CHARLES ARMON HARBERT, 4. ALLEN RICHARD KRASKA.

Application for Patent No. 699/Del/1980 filed on the 27th September, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

10 Claims

A process for preparing a compound selected from the group consisting of cis-isomeric bases of the formula I and the pharmaceutically acceptable acid addition salts thereof, wherein,

R_1 is selected from the group consisting of hydrogen and normal alkyl of from 1 to 3 carbon atoms,

R_2 is normal alkyl of from 1 to 3 carbon atoms,

Z is a radical of formula VI,

X and Y are each selected frm the group consisting of hydrogen, fluoro, chloro, bromo, trifluoromethyl and cyano, with at least one of X and Y being other than hydrogen, and

W is selected from the group consisting of hydrogen, fluoro, chloro, bromo, trifluoromethyl and alkoxy of from 1 to 3 carbon atoms,

which process comprises the steps of

(a) condensing a compound of the formula II with an amine of the formula HNR_1R_2 in the presence of an acid catalyst to obtain, when R_1 is hydrogen, a compound of the formula III or, when R_1 is normal alkyl, a compound of the formula IV;

(b) reducing by known methods the resulting compound of formula III or IV to obtain a mixture of *cis*- and *trans*-isomeric base of formula I.

(c) separating by known methods of a *cis*-isomeric base of formula I from said mixture resulting from step (b); and

(d) if desired, converting by known methods the *cis*-isomeric base of formula I resulting from step (c) to a pharmaceutically acceptable acid addition salt thereof.

(Complete specification 50 pages. Drawings 04 sheets)

CLASS : 32 F_2 (a) & 32 F1. 159644

Int. Class : C 07 c — 87/66.

A PROCESS FOR PREPARING ANTIDEPRESSANT DERIVATIVES OF CIS-4-PHENYL-1, 2, 3, 4-TETRAHYDRO-1-NAPHTHALENAMINE.

Applicant : PFIZER INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventors : CHARLES ARMON HARBERT
BILLIE KENNETH KOE
ALLEN RICHARD KRASKA
WILLARD McKOWAN WELCH

Application for Patent No. 060/Del/1984 filed on the 20th January, 1984 (anti dated to 27th September, 1980) Divisional application to 699/Del/1980 filed on the 27th September, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

10 Claims

A process for preparing a compound selected from the group consisting of cis-isomeric bases of the formula I and the pharmaceutically acceptable acid addition salts thereof, wherein,

R_1 is selected from the group consisting of hydrogen and normal alkyl of from 1 to 3 carbon atoms,

R_2 is normal alkyl of from 1 to 3 carbon atoms,

Z is a radical of formula VI,

X and Y are each selected from the group consisting of hydrogen, fluoro, chloro, bromo, trifluoromethyl, alkoxy of from 1 to 3 carbon atoms and cyano, with at least one of X and Y being other than hydrogen, and

W is selected from the group consisting of hydrogen, fluoro, chloro, bromo, trifluoromethyl and alkoxy of from 1 to 3 carbon atoms,

which process comprises the steps of

(a) hydrogenating by any known method a compound of the formula V to obtain a mixture of *cis*- and *trans*-isomeric bases of formula I;

(b) separating in any known manner a cis-isomeric base of formula I from said mixture resulting from step (a); and

(c) if desired, converting in any known manner the *cis*-isomeric base of formula I resulting from step (b) to a pharmaceutically acceptable acid addition salt thereof.

(Complete Specification 48 Pages Drawings 04 Sheets)

CLASS : 163 B. 159645

Int. Class : F 04 c 1/00.

FLUID PUMP OR MOTOR DEVICE.

Application : GALLAHER LIMITED, A BRITISH COMPANY, OF 65 KINGSWAY, LONDON, W.C. 2B 6TG, ENGLAND.

Inventor : LESLIE SUMNER.

Application for patent No. 840/Del/80 filed on 26th November, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

12 Claims

A fluid pump or motor device comprising a first housing part having an internal surface and a first peripheral clamping surface surrounding said internal surface, and facing in substantially the same direction as said internal surface, a flexible diaphragm having a chamber-forming face overlying said internal surface and said peripheral clamping surface, said diaphragm being substantially longitudinally inextensible, a second housing part having a second peripheral clamping surface shaped to overlie that part of the diaphragm overlying the first peripheral clamping surface, effective to clamp said diaphragm sealingly against said first peripheral clamping surface, whereby a chamber is formed between said chamber-forming face and said internal surface of said first housing part, first and second ports in said first housing part communicating with spaced portions of said chamber and at least three deflectors movable longitudinally of the diaphragm sequentially on the face of said diaphragm remote from said chamber-forming surface to urge the diaphragm against or towards said internal surface to form a closure or constriction, which traverses the chamber and to move the closure or constriction from one port to the other port, one such closure or constriction being terminated after the succeeding closure or constric-

tion is initiated, the device configuration being such that, as said at least three deflectors move sequentially along a path on said surface of the diaphragm remote from the chamber, the total distance measure along the diphragm, between the claping points of the longitudinal ends of the diaphragm and deflectors around the deflector or deflectors in contact with the diaphragm remains substantially constant.

(Complete Specification 17 Pages. Drawing Two Sheets)

CLASS : 163 B. 159646

Int. Class : F 04 c 1/00.

DIAPHRAGM FOR USE IN A DIAPHRAGM PUMP OR MOTOR.

Applicant : GALLAHER LIMITED, A BRITISH COMPANY, OF 65 KINGSWAY, LONDON W.C. 2B 6TG, ENGLAND.

Inventor : LESLIE SUMNER.

Application for Patent No. 746/Del/83 filed on 9th November, 1983.

Divisional to Application No. 840/Del/80 dated 26th November, 1980 & anti dated to 26th November, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

7 Claims

A diaphragm for use in a diaphragm pump or motor device said diaphragm comprising a pre-moulded flexible diaphragm having opposite end and side edges, a longitudinally extending central zone, longitudinal reinforcement within said central zone rendering the diaphragm substantially longitudinally inextensible, a peripheral clamping portion of the diaphragm extending around the full periphery thereof, so as to be clampable between first and second housing parts of the pump or motor device and two longitudinal corrugations formed in said diaphragm, one on each side of said central zone, between the central zone and the peripheral clamping portion.

(Complete Specification 14 Pages. Drawings Two Sheets)

CLASS : 51 D. 159647

Int. Class : B 26b 21/16.

A SHAVING IMPLEMENT.

Applicant : THE GILLETTE COMPANY, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF PRUDENTIAL TOWER BUILDING, BOSTON, STATE OF MASSACHUSETTS, UNITED STATES OF AMERICA.

Inventor : ROBERT ANTHONY TROTTA.

Application for Patent No. 616/Del/81 filed on 25th September, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

12 Claims

A shaving implement comprising a platform portion, a back portion upstanding from a lengthwise margin of said platform portion, a cap portion extending from said back portion and overlying said platform portion, leg portions extending forwardly from said platform portion and joining a guard portion, said platform portion having a series of aligned recesses therein adjacent said back portion, and said cap portion comprising a series of spaced, aligned, forwardly extending fingers, each of said fingers being disposed over one of said recesses, said recesses being separated by platform rib portions, said rib portions and said fingers being adapted to receive and retain blade means therebetween.

(Complete Specification 14 Pages. Drawings Two Sheets)

CLASS : 51 D. 159648

Int. Class : B 26b 21/16.

AN IMPROVED SHAVING IMPLEMENT.

Applicant : THE GILLETTE COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF PRUDENTIAL TOWER BUILDING, BOSTON, STATE OF MASSACHUSETTS, UNITED STATES OF AMERICA.

Inventor : ROBERT ANTHONY TROTTA.

Application for Patent No. 411/Del/84 filed on 17th May, 1984. Anti dated to 25th September, 1981.

Divisional to patent application No. 616/Del/81 filed on 25th September, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

A shaving implement comprising a platform portion a back portion upstanding from a lengthwise margin of said portion, a cap portion extending from said back portion and overlying said platform portion, end walls interconnecting said platform and cap portions at either end thereof, said platform, back, cap and end wall portions being an integrally molded plastic unit, said cap portion being resilient and in an unstressed state inclines toward said platform portion to a first position, and blade means permanently disposed between said cap and platform portions and adjacent said back portion, said blade means biassing said cap portion and retaining said cap portion in a second position further removed from said platform portion than said first position, said cap portion thereby exercising a clamping pressure on said blade means.

(Complete specification 12 pages. Drawing 2 sheets).

CLASS : 114 A, D, E. 159649

Int. Class : C 14 b, 1/40, 1/00, 17/00, 15/00.

A STAKING MACHINE.

Applicant : MICHAEL VOIT GMBH, OF SCHILLERSTRASSE 21, D-8671 WEISSENSTADT, WEST GERMANY, GERMAN COMPANY.

Inventor : VOIT KARL.

Application for Patent No. 32/Del/83 filed on 18th Jan., 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

A staking machine for treating leather, skins and furs comprising two rotatable work rolls (40, 42) studded with staking blades and/or grindstones, with two resilient, flexible pressing pads for pressing the leather (skin or fur) to be treated against the work rolls (40, 42) and further with a feed roll (48) for pulling the leather between the pressing pads and the work rolls (40, 42) characterised in that the feed roll (48) is movable in both directions of rotation, that two pinch rolls (50, 52) and two further rolls (54, 56) are provided and that a continuous conveyor belt is arranged around said four rolls (50, 52, 54, 56) which belt also covers a portion of the circumference of the fed roll (48), and work rolls are swivelled on a pivot means towards and/or away from its respective pressing means.

(Complete Specification 17 Pages. Drawing 8 Sheets)

CLASS : 87C 159650

Int. Cl. : A63b 59/12.

HOCKEY STICK.

Applicant : RUCANOR GMBH., A WEST GERMAN COMPANY OF MAX-PLANCK, STREET 11, OF 5030 HURTH, WEST GERMANY.

Inventors : TOON COOLEN.

Application for Patent No. 105/Del/83 filed on 17th February, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

A hockey stick with a short head at one end, the free end of the said head being bent in relation to the shank of the head merging into the shaft of said stick, characterised in that the free end of the head is bent back through about 180° with respect to said shank so that the inner edge of the free end of said head facing the shank of the head is at a distance as herein described (*a*) from the shank of the head.

Compl. specn. 11 pages. Drg. 1 sheet

CLASS : 179 B 159651

Int. Cl. : B67C 3/00.

APPARATUS FOR FILLING CONTAINERS WITH LIQUID/PASTE SUBSTANCES UNDER STERILE CONDITIONS.

Applicant : EL. PO. S.r.L., OF VIA LANGHIRANO, 409-CORCAGNANO, PARMA, ITALY, AN ITALIAN COMPANY

Inventors : PONZI RENATO & ELLEMBERG MARTIN.

Application for Patent No. 123/Del/83 filed on 25th February, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

11 Claims

An apparatus for filling containers with liquid/paste substances under sterile conditions, characterised in that it comprises :

— A filler-valve capable of movement through a vertical path and provided at bottom with an outlet orifice whose projecting spout inserts to a tight fit within the mouth of a container to be filled: and

— an enclosed sterile chamber located beneath said filler-valve and having an opening at bottom into which the neck of said container may be introduced;

— a grip device which lays hold on said container-neck when offered to said opening, thereby keeping it in vertical alignment with said filler valve; and

— means for closing off said opening automatically whenever no such container neck is offered thereto.

Compl. specn. 17 pages. Drg. 5 sheets

CLASS : $42A_1$ 159652

Int. Cl. : A24c—5/32, 5/35, 5/52.

AN AXIAL TRANSLATION DEVICE FOR PARTLY FINISHED CIGARETTES.

Applicant : G. D. SOCIETA PER AZIONI, OF VIA POMPONIA 10, 40100 BOLOGNA, ITALY, AN ITALIAN COMPANY.

Inventors : ENZO SERAGNOLI, RICCARDO MATTEI AND GASTONE DALL'OSSO.

Application for Patent No. 165/Del/1983 filed on 14th March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A device for axial translation of partly finished cigarettes disposed alongside one another in such a way as to form two substantially parallel rows movable in a direction of advance substantially perpendicular to the axes of the said partly finished cigarettes, the device including an input conveyor and an output conveyor for the said two rows of partly finished cigarettes and axial translation means for the said partly finished cigarettes being provided between the said input conveyor and output conveyor to vary the distance between the said two rows, characterised in that, the said axial translation means includes two conveyor rollers each operable to transport partly finished cigarettes of a respective said row and rotatable about respective axes parallel to those of the said partly finished cigarettes but offset from one another, each said roller being substantially tangential to the said input and output conveyors and carrying connected to their peripheries a plurality of supports for the said partly finished cigarettes, the supports being movable parallel to the axes of the said partly finished cigarettes under the thrust of actuator means between a take-up position and a release position, the said supports for the said partly finished cigarettes being distributed at constant pitch around the periphery of the said conveyor rollers, and the arcs along the periphery of these rollers over which said partly finished cigarettes are advanced between the respective generatrices of tangency with the said input and output conveyors differing from each other by an amount equal to at least one pitch or distribution step, and the input conveyor, the output conveyor and the conveyor rollers all having the same pitch or distribution step and the distances along the periphery of the conveyor rollers between the point of tangency with the input conveyor and output conveyor differing by an amount which is exactly equal to one pitch or distribution step or a multiple of this distance.

Compl. Specn. 11 pages. Drg. 1 sheet.

CLASS : 39 I & 56 C. 159653

Int. Cl. : B 01 j 17/04, 17/20.

"PROCESS FOR SEPARATING OFF CALCIUM NITRATE TETRAHYDRATE BY CRYSTALLIZATION."

Applicant : UNIE VAN KUNSTMESTFABRIEKEN B.V. OF MALIEBAAN 81, 3581, CG UTRECHT, THE NETHERLANDS, A NETHERLANDS COMPANY.

Inventor : 1. GIJSERTUS HENDRIQUS MARIA CALIS. 2. MATHEUS HUBERTUS GERARDUS JENNEKENS.

Application No. 122/MAS/84 filed February 22, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

12 Claims

Process for separating calcium nitrate tetrahydrate by crystallization from a liquor obtained by digesting phosphate rock with nitric acid, the crystallization being initiated by the addition of fine calcium nitrate tetrahydrate seed crystal during batchwise cooling of the liquor, which process is characterized in that in the beginning of the cooling process calcium nitrate tetrahydrate seed crystal with a particle size smaller than 100 um are added to the said digestion liquor at a temperature of the digestion liquor which is 0.1-2°C lower than the satruation temperature of the digestion liquor, the said digestion liquor is subsequently further cooled by means of a cooling medium and the calcium nitrate tetrahydrate crystalized out in the process is separated from the cooled digestion liquor.

Compl. Specn. 16 pages. Drg. Nil.

CLASS : 39 K & 40 H. 159654

Int. Cl. : C 01 b 31/20.

"IMPROVED PROCESS FOR THE RECOVERY OF CARBON DIOXIDE FROM FUEL GASES."

Applicant : THE DOW CHEMICAL COMPANY, OF 2030 DOW CENTRE, ABBOTT ROAD MIDLAND, MICHIGAN 48640, U. S. A.

Inventors : 1. ROSCOE LAMONT PEARCE, 2. CHARLES RICHARD PAULEY, 3. RICHARD ALAN WOLCOTT.

Application No. 132/MAS/84 filed February 27th 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

11 Claims

A process for the recovery of carbon dioxide from feed gases containing carbon dioxide and oxygen which may also contain sulfur componds, contacting then gas with circulating alkanolamine solution and treating said solution rich in CO_2 with heat to release the CO_2, thereby producing a lean solution and returning the so treated lean solution to the contacting step, the improvement which comprises :

(a) maintaining an amount of copper between 50 ppm and 750 ppm in said circulating solution effective to inhibit corrosion; and/or degradation of the solvent

(b) contacting the circulating solution with at least one of the following

(1) at least one mechanical filter;

(2) activated carbon bed;

(3) anion exchange resin; and/or

(4) any combination thereof.

Compl. Specn. 20 pages. Drg. 1 sheet.

CLASS : 119 A. E. 159655

Int. Cl. : DO 3d 45/00.

"A DEVICE FOR PRODUCING IMPROVED FABRICS FREE OF DEFECTS AS A RESULT OF STOPPAGE OF A WEAVING LOOM."

Applicant : SOCIETE ALSACIENNE DE CONSTRUCTION DE MATERIAL TEXTILE, a French, body Corporate of 1, rue de la Fenderie, B. P. 1210, F 68054 Mulhouse Cedex, France.

Inventors: YES JULLARD.

Application No. 135/MAS/84 filed 29th February 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

9 Claims

A device for producing improved fabrics free of detects such as stripes, bars or thin portions by means of high-speed shuttleless looms in which at least the first startup revolution of the loom takes place without weft insertion, the first weft thread being inserted at the earliest only at the second revolution in order to be beaten-up by the reed with the same force as the proceeding weft threads, said loom comprising : a cloth takeup regulator (20) provided with an input shaft (22; an actuating element (26) of said regulator (20) which is driven in synchronism by the main shaft (24) of the loom; and a connection system (26-28-30) placed between said input shaft (22) and said actuating element (26) of said regulator, said device being characterized in that said connection system comprises: a pulley (30) which is mounted to rotate freely on the input shaft (22) of the regulator (20) and carriesat laest one driving stop (34); and comprises at least one driving-dog member (36-38) which is keyed on said shaft (22) and is capable of co-operating with said stop, whereby said connection system forms a free-motion angular displacement connection system adapted to disengage said input shaft (22) from the actuating element (26) during at least a fraction of a revolution after each change in direction of motion of the loom.

Compl. Specn. 18 pages. Drg. 4 sheets.

CLASS : 13 1A 1, A 2, & 27 E. 159656

Int. Cl. : E 21 d 17/00.

"MINE ROOF SUPPORTS."

Applicants : DOBSON PARK INDUSTRIES PLC., of Dobson Park House, Colwick Industries Estates, Nottingham, England, a British Company.

Inventor : JAMES SEDDON.

Application No. : 144/Mas/84 filed 8th March 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office, Madras Branch.

14 Claims

A mine roof support having a roof engaging structure and a floor engaging base, spaced apart by extensible hydraulic jack means, the roof engaging structure having at least one downwardly extending prejection and the floor engaging base having at least one upwardly extending projection, the roof engaging structure and the base being interconnected at said projections by a parallelogram type pivotal linkage device ensuring that the roof engaging structure maintains a predetermined orientation with respect to the base, resisting any tendancy for the leading edge of the roof engaging structure to tip downwardly, the arrangement being such that through the range of working movement of the linkage device, a pivot point of the linkage performs the maximum arcuate movement in the vertical direction for the minimum arcuate movement in the horizontal direction.

Compl. Specn. 12 pages. Drgs. 2 sheets.

CLASS : 160 C. 159657

Int. Cl. : B 60 S-1/02.

"A MOTOR OPERATED MECHANISM FOR OSCILLATORY MOTION."

Applicants : LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, a British Company of Great King Street, Birmingham B 19 2XF, ENGLAND.

Inventor : ROBERT JOHN LANE.

Application No. 157/MAS/84 filed 12th March 1984.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Madras Branch.

6 Claims

A motor operated mechanism for oscillatory motion including a motor, a support, a member movable relative to the support, means connecting the member to the motor so that operation of the motor causes movement of the member towards and away from a limit position, an abutment for engagement by said member in said limit position for preventing movement of said member beyond said limit position, and mounting means mounting said abutment on said support for movement by the member from an initial position to a set position, said mounting means providing a frictional resistance to said movement of the member such that the force required to overcome the frictional resistance is less than the force which is capable of being applied to the abutment by the motor via the member.

Compl. Specn. 21 pages Drg. 5 sheets.

CLASS : 172 D1. 159658

Int. Cl. : D 01 h 7/00.

"A THREAD PULL-OFF AID OF VARIABLE GEOMETRICAL CONFIGURATION FOR THE OVERHEAD DRAWING-OFF OF A THREAD FROM A CREEL BOBBIN."

Applicant : PALITEX PROJECT-COMPANY.

Inventors: ULRICH LOSSA.

Application No. 169/MAS/84 filed March 15, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

7 Claims

A thread pull-off aid for the overhead drawing-off of a thread, to be wound onto a bobbin, from a feed or creel bobbin mounted on a bobbin carrier, the pull-off aid comprising at least one pull-off aid disc adapted to be slipped onto the bobbin carrier and made up of a plurality of displaceable disc segments enabling the diameter of the pull-off aid disc to be varied, a diameter sensor for sensing the diameter of the bobbin being wound a spring-biassed sliding sleeve coupled by guide links to the disc segments for reducing the diameter of the pull-off aid disc, and a latch for latching the sliding sleeve in a lower position against the spring bias, the latch being releasable in response to a control signal from the diameter sensor when the bobbin being wound has reached a predetermined diameter.

Compl. Specn. 13 pages. Drg. 3 sheets.

CLASS : 28 C. 159659

Int. Cl. : F 23 q 1/00.

"APPARTUS FOR THE IGNITION OF FUELS."

Applicant : DEUTSCHE BABCOCK WERKE AKTIEN GESELLSCHAFT, of Duisburger Str. 375, 4200 Oberhausen 1, Federal Republic of Germany, A German Company.

Inventor : JOACHIM SECKER.

Application No. 182/MAS/84. filed March 20, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

7 Claims

Apparatus for the ignition of fuels in combustion spaces which are dust-laden or accessible only with difficulty, comprising : a mixing chamber arranged in a combustion space; connections for air and an easily ignitable medium on said mixing chamber, said connections being connected with feed ducts brought forward externally of the combustion space, said easily ignitable medium producing ignition of the fuel in the combustion space by being self-ignitable under predetermined conditions; said easily ignitable medium and air being introduced into said combustion space in addition to fuel to be ignited by self-ignition of said medium.

Compl. Specn. 7 pages. Drg. 2 sheets.

CLASS : 69 0. 159660
159660

Int. Cl. : H 01 r 7/00, 9/00.

"ANELECTRICAL TERMINAL."

Applicant : MK ELECTRIC LIMITED, British Company of Shrubbery Road, Edmenton, London N9 OPB, England.

Inventor : DAVID SIDNEY MAHONEY.

Application No. 201/Mas/84 filed March 26, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

11 Claims

An electrical terminal comprising a strip of metal folded upon itself about an axis transverse to the strip to form a closed loop with the end parts of the strip overlapping each other, the strip being provided with a screw-threaded bore passing through the strip for receiving a screw to clamp an electrical lead inside the loop, part of the outer surface of the loop being provided with a layer of silver or a silver alloy.

Compl. Specn. 8 pages. Drgs. 2 sheets.

CLASS : 169 C. 159661

Int. Cl. : F 4 1 h 7/00.

"OSCILLATING TURRET FOR ARMOURED VEHICLES."

Applicant : FIVES-CAIL BABCOCK.

Inventors : JEAN R DURAND, BERNARD LACOSTE, PAUL LIEGER.

Application No. 205/M/84 filed 28th March 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

8 Claims

An oscillating turret for armoured vehicles comprising a bolster (3) mounted on the vehicle by means of a ring race (5) allowing it to rotate about a vertical axis and an oscillating body (2) mounted on the bolster by means of trunnions (9) so that it can oscillate about a horizontal axis, characterized in that the bolster (3) is constituted by a base plate (19) located approximately in the plane of the ring race (5) and by a front wall (18), a rear wall (20) consist of portions of cylindrical surfaces whose axes coincide with the axis of said trunnions (9), and side walls (21) circumscribed at said ring race, said front and rear walls diverging upward from the plane of the base plate, and in that the oscillating body (2) completely surrounds the bolster, its said walls extending practically to the level of the base plate (19).

Compl. Specn. 9 pages. Drg. 3 sheets.

CLASS : 32 E. 40 B. 159662

Int. Cl. : C 08 f 3/00, 15/00.

A PROCESS FOR PRODUCING ETHYLENE HOMOPOLYMER OR COPOLYMER USING SUPPORTED VANADIUM CATALYST."

Applicant : UNION CARBIDE CORPORATION a Corporation organized under the laws of the State of New York, located at Old Ridgebury Road, Danbury, State of Connecticut 06817, United State of America.

Inventors : FREDERICK JOHN KAROL, KEVIN J. CANN, NORMA JEAN MARASCHIN, DEBRA L. BERAN, ROBERT J. JORGENSEN, ARTHUR E. MARCINKOWSKY.

Application No. 207/Mas/84 filed March 28, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

10 Claims

A process for producing ethylene homopolymer or copolymer which comprises polymerizing ethylene with or without at least one C_8 to C_{10} alpha-olefin monomer in the gas phase at a temperature between about 10°C to about

115°C, by contacting the monomers with a catalyst composition comprising :

(A) a supported precursor consisting essentially of :

(1) a vanadium compound which is the reaction product of :

(a) a vanadium trihalide of chlorine, bromine or iodine; and

(b) an election donor which is a liquid, organic Lewis base in which said vandium trihalide is soluble;

(2) a modifier having a formula :

MX_a

wherein :

M is eithe boron or AlR 3-a and wherein each R is independently alkyl, provided that the total number of aliphatic carbon atoms in any one R group not exceeding 14;
X is chlorine, bromine or iodine and a is 0, 1 or 2, with the provision that when M is boron a is 3; and

(3) wherein said vanadium compound and said modifier are on a solid, inert carrier which consists essentially of silica or alumina;

(b) a cocatalyst having the formula

AlR_3

wherein R is as previously defined; and

(c) a promoter having the formula :

R'b cX' (4—b)

wherein :

wherein :

R^1 is hydrogen or unsubstituted or halosubstituted
X^1 is lower alkyl; halogen; and
b is 0, 1 or 2.

Compl. Specn. 32 pages. Drg. Nil.

CLASS : 34-C. 159663

Int. Cl. : C 08 b 15/06.

"IMPROVED PROCESS FOR DISSOLVING CELLULOSE CARBAMATE."

Applicant : NESTE OW, OF KEILANIEMI, 02150 ESPOO 15. FINLAND.

Inventors : 1. JOHAN SELIN, 2. JOUKO HUTTUNEN, 3. OLLI TURUNEN, 4. VIDAR EKLUND, 5. KURT EKMAN.

Application No. 1465/Cal/83 filed November 29, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

4 Claims

An improved process for dissolving cellulose carbamate in alkali, characterised by dissolving the cellulose carbamate in alkali in the presence of urea.

Compl. Specn. 8 pages. Drg. Nil.

CLASS : 39-M. 159664

Int. Cl. : C 01 b 25/30.

"PROCESS AND APPARTUS FOR MAKING ALKALI METAL POLYPHOSPHATES."

Applicant : HOECHST AKTIENGESELLSCHAFT, D 6230 FRANKFURT/MAIN 80 FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. BEN DAMMAN, 2. HANS SCHEFFER, 3. PAUL DE WITTE, 4. JOHANNES KRAUSE, 5. HANS HAAS, 6. WERNER KOWALSKI.

Application No. 1470/Cal/83 filed November 30, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 Claims

Process for making alkali metal polyphosphates, especially alkali metal triphosphates, from alkali metal phosphate solutions or suspensions by forcing the feed materials through at least one nozzle and spraying said feed materials inside a spray lower through a flame zone produced by a plurality of burners arranged in annular fashion, which comprises : additionally introducing fine particulate alkali metal polyphosphates, especially alkali metal triphosphates, into the spray tower from above and regularly distributing sail fine particulate alkali metal polyphosphates across the spray region of the at least one nozzle and thereby effecting the formation of agglomerated alkali metal polyphosphates; and said fine particulate alkali metal polyphosphates used being comprises of :

(a) dusty material separated from the gas issuing from the spray tower, and/or

(b) fines obtained by screening alkali metal polyphosphate coming from the base portion of the spray tower.

Compl. Specn. 22 pages. Drg. 5 sheets.

CLASS : 172-D_4. 159665

Int. Cl. : D 01 d 13/00; D 01 h 1/00, 3/00.

"AN APPARATUS FOR THE DOUBLE-FACE CONTINUOUS SPINNING OF SYNTHETIC FIBERS."

Applicant : SNAMPROGETTI S.p.R., OF CORSO VENEZIA 16, MILAN, ITALY.

Inventors : 1. GIUSEPPE IEVA, 2. GIANCARLO VOLA.

Application No. 1475/Cal/83 filed December 2, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

An apparatus for the double-face continuous spinning of synthetic polymer fibres , comprising an extruder for melting the polymer supplied in the form of fragments or chips, a double-face spinning block provided with spinnerets contained in tubes, with metering pumps and with distribution headers for metering the molten polymer to befed to the various spinnerets, the polymer being kept heated inside the block by heated diathermic oil, two blowing chambers one for each face, for cooling the molten polymer filaments from the spinnerets with conditioned blowing air from a central air conditioning unit, and a double-face take-up system for collecting the cooled polymer filaments into bobbins, characterised in that the tubes containing the corresponding spinneret units of the two faces of said double-face spinning

block are connected together by an underlying sump containing diathermic oil together with electrical resistance heaters, between said two flowing chambers there being provided a large pressure chamber connected to said central air conditioning unit and in direct communication with said blowing chambers by means of distribution panels which, in that part thereof in contact with the pressure chambers, are provided with positionally adjustable dampers, between the two faces of said double-face take-up system there being provided a second chamber for receiving the conditioned blowing air, and which is also connected to said central conditioning unit in order to close the air circuit, means also being provided for supporting said apparatus in vertical cascade.

Compl. Specn. 13 pages. Drg. 2 sheets.

CLASS : 48-A_1. 159666

Int. Cl. : H 01 b 9/00; H 02 g 15/00.

"CABLE DISTRIBUTION HEAD WITH LSA-PLUS TERMINATION TECHNIQUE."

Applicant : KRONE GMBH., OF GOERZALLE 311, 1000 BERLIN 37, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. CHRISTATA TAYBL,

2. DIFTER GERKE,

3. FRITZ EDUARD KOCH,

4. GERHARD SCHWENDA.

Application No. 1486/Cal/83 filed December 3, 1983.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A cable distribution head with solderless, non-screwed and non-stripped, polytropic air gap termination technique (=LSA–PLUS termination technique) for terminating incoming and outgoing communications cables, comprising for the cables leading into and out of the interior of a housing bottom part an LSA–PLUS terminal block including an overvoltage arrester magazine adapted to be plugged thereon, a shield contact member, an earth wire contact member and a strain relief means, characterized in

that in the housing (1) of the cable distribution head, which may be closed by a slip cover (4) adapted to be latched in the open and the closed state by means of projections (2, 3), there are provided a latchable LSA–PLUS terminal block (6) loaded with LSA–PLUS terminals (7a, 7b) disposed on the ends of a bar (7), there being provided between the LSA–PLUS terminals (7a, 7b) associated with the incoming and the outgoing communications cables (21, 22) an open-topped chamber (8) for receiving an overvoltage arrester magazine (9) further a clamping means (15) disposed on the end face (6a) of the LSA–PLUS terminal block (6) for solderless and non screwed termination of an earth wire (16), a self-supporting shield contact member formed as a U-shaped metal clip (10) with contacting teeth (11) and a clip spring (12) adapted to be clamped into the metal clip (10), and a self-supporting strain relief means consisting of a clamping spring (13) adapted to be latched into the housing (1) and formed with a resilient lug (13a).

Compl. Specn. 13 pages. Drg. 4 sheets.

CLASS : 72-B. 159667

Int. Cl. : C 06 b 11/00.

"AN IMPROVED EXPLOSIVE COMPOSITION."

Applicant : IRECO CHEMICALS, OF SEVENTH FLOOR, KENNECOTT BUILDING, SALT LAKE CITY, UTAH 84133, U. S. A.

Inventors : 1. HARVEY A. JESSOP,
2. ALBERT G. FUNK.

Application No. 1542/Cal/83 filed Decembe

Appropriate office for opposition pro Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

An improved explosive composition comprising, by weight based on the total composition :

(a) at least 35% sodium perchlorate,

(b) from 17% to 35% water,

(c) from 8% to 25% polysaccharide polymer of plant origin such as herein described;

(d) minor amounts of gassing agents so as to obtain a composition density of less than 1.5 gm/cc such as herein described and optionally cross-linking agents such as herein described, and organic fuel and finely divided aluminum particles.

Compl. Specn. 12 pages. Drg. Nil.

CLASS : 133-A. 159668

Int. Cl. : H 02 p 9/00.

"APPARATUS FOR GOVERNING A GENERATOR."

Applicant : UNIVERSITY OF AUCKLAND, OF PRINCES STREET, AUCKLAND, NEW ZEALAND.

Inventors : 1. JACK LIONEL WOODWARD,

2. JOHN TALBOT BOYS.

Application No. 1570/Cal/83 filed December 22, 1983.

Convention dated 22nd December, 1982 (202894) New-Zealand.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

Apparatus for governing a generator having an alternating output voltage comprising a plurality of dump loads electrically associated or associable with the electrical output of said generator measurement means to measure the alternating output voltage frequency, detection means to detect a change in the measured output voltage frequency of said generator, switching means to, in use, switch one or more said dump loads into or out of association with said generator in response to said detected frequency change so as to vary said alternating output voltage frequency so as to substantially compensate for said detected frequency change, and damping means to damp the rate at which said alternating output voltage frequency occurs and wherein said measurement means comprises a band-pass filter to receive incoming signals, a pulse generator to generate count pulses and a counter to count said count pulses for a period determined by the frequency of said incoming signals passed by said band-pass filter.

Compl. Specn. 22 pages. Drg. 10 sheets.

CLASS : 129-K. 159699

Int. Cl. : B 23 g 5/00.

"SELF-CUTTING THREADING INSERT."

Applicant : KERB-KONUS-VERTRIEBS-GMBH, OF D-8454 SCHNAITTENBACH, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. BERNHARD STOVEKEN.

Application No. 1581/Cal/83 filed December 23, 1983.

Appropriate office for opposition proceedings (Rule 4,

Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

A self-cutting threading insert having an outer thread, with a chamfer at the insert end which cuts the outer thread, as well as with cuts in the area of the chamfer, said cuts forming tapping edges which, when inserting the threading insert into a smooth receiving bore, cut an inner thread into the said receiving bore, whereby the threading insert has a bore, extending over its entire length, with an inner thread, characterised in that the cuts (5, 10, 12) are sealed toward the front (7) of the insert end (3) against cuttings escaping into the receiving bore.

Compl. Specn. 14 pages. Drg. 2 sheets.

CLASS : 65-B. 159670

Int. Cl. : H° 01 f 27/28.

"ONLOAD TAP-CHANGING TRANSFORMER".

Applicant : HITACHI LTD., OF 6 KANDA SURUGADAI 4-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventor : 1. MINORU HOSHI.

Application No. 40/Cal/84 filed January 19, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

An onload tap-changing transformer comprising an iron core, a low-voltage winding and a high winding would on said iron core, a coarse tap winding wound on said iron core and connected in series with said high voltage winding, a fine tap winding selectively connectable to any one of said high voltage winding and said coarse tap winding by a switch, wherein at least a part of conductors making up said coarse tap winding and conductors making up said fine tap winding are wound together in juxtaposed relation with each other, into a disc winding assemply including at least one circular coil, thereby integrating said coarse tap winding adn said fine tap winding and taps are led out of predetermined points of said fine tap winding of said disc winding assembly.

Compl. Specn. 18 pages. Drg. 3 sheets.

CLASS : 40-F. 159671

Int. Cl. B 01 j 1/00.

"A DEVICE FOR PROCESSING THERMOPLASTIC SYNTHETIC PLASTICS MATERIAL".

Applicant : EREMA ENGINEERING-RECYCLING-MASCHINEN-ANLAGEN GES. m. b. H. OF FREE.—MARKL-STRASSE, 39/II/16, A-4040 LINZ, AUSTRIA.

Inventor : 1. GEORG WENDELING.

Application No. 75/Cal/84 filed February 2, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A device for processing thermoplastic synthetic plastics material, comprising a receiving receptacle (1) having a bootom, a comminuting and mixing tool (4) arranged at the area of this bottom and being rotable around an approximately vertical axis, and comprising a screw type extruxer radially arranged relative to said vertical axis having its housing (2) connected to the interior of the receiving receptacle (1) via an opening provided in the wall of the receiving receptacle at the area of the comminuting and mixing tool, characterised in that the housing (2) of the screw type extruder being aligned, at the area of the opening (9), to the contour of the internal wall of the receiving receptacle and that the screw (3) of the extruder being also aligned to the contour or displayed backwardly with respect to said internal wall of the receiving receptacle and that the free ends of the working edges (13) of the comminuting and mixing tool (4) being backwardly displaced as seen in the sense of their rotation.

Compl. Specn. 9 pages. Drg. 4 sheets.

CLASS : 131-A_3 + 27-I+101-F 159672

Int. Cl. E 21 b 43/00.

"A WELL STRUCTRUE".

Applicant & Inventor : JAYANT LAL LAL OF HYDRAULIC COLONY, P.O. KHAGAUL, PATNA, STATE OF BIHAR, INDIA.

Application No. 99/Cal/84 filed February 10, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A well structure for the purpose herein defined wherein :

(a) the lining of the well or well wall is constructed wholly or partially of porous blocks;

(b) at least the upper portion of the well wall is surrounded by one or more layers of filtering medium;

(c) the said filtering medium is covered at the top by a roof made of porous material; and

(d) in the wall of the well are fitted one or more outwardly extending collector pipes for the water to be recharged to the underground.

Compl. Specn. 13 pages. Drg. 2 sheets.

CLASS : 170 D. 159673

Int. Cl. : C 11d 9/00.

"METHOD FOR THE PREPARATION OF POURABLE, NON-SEDIMENTING, AQUEOUS BASED DETERGENT COMPOSITIONS".

Applicant : ALNRIGHT & WILSON LIMITED, A BRITISH COMPANY OF ALBRIGHT & WILSON HOUSE, HAGLEY ROAD WEST, OLDBURY, WARLEY, WEST MIDLANDS, ENGLAND.

Inventors : BRIAN JOHN AKRED, EDWARD TUNSTALL MESSENGER AND WILLIAM JOHN INCHOLSON.

Application for Patent No. 74/DEL/83 filed on 7th February, 1983.

Convention Date on 5th February, 1982/8203398/(U.K.). 13th April, 1982/8210670/(U.K.). 2nd July 1982/8219227/(U.K.), and 23rd December, 1982/8236664/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi 110 005.

2 Claims

A method for the preparation of a purable, Non-sedimenting, aqueous based detergent composition containing Active ingredient of the kind such as herein described and Builder of the kind such as hercin described having at least 25% by weight pay load and comprising a first, predominently aqueous liquid phase, containing dissolved electrolyte of the kind such as herein described, at least one Dispersed solid phase comprising said Builder, and at least one other phase, comprising more than 25% by weight of the Active ingredient, separable from said first phase by centrifuging

at 800 times normal Earth gravity for 17 hours at 25°C which comprises mixing together active ingredients with sufficient electrolyte to maintain at least a substantial proportion of said active ingredients in a solid or liquid crystal separable phase and with a particulate builde in excess of its solubility in the composition, at a temperature sufficient to ensure adequate mixing, and adjusting the concentration to a pay load above the minimum concentration at which the composition is Non-sedimenting and below the maximum at which the composition of purable.

Compl. Specn. 100 pages. Drg. 10 sheet.

CLASS : 182 D. 159674

Int. Cl. : C 13 f 1/02.

"A CRYSTALLIZER FOR ALLOWING CRYSTALLIZATION OF SUGAR CRYSTALS IN MOTHER LIQUOR".

Applicant : BHUSAN LAL MITTAL, an Indian national of 12 Avas Vikas, Civil Lines, MORADABAD-244 001, India.

Applicant : BHUSHAN LAL MITTAL, AN INDIAN NATIONAL OF 12 AVAS VIKAS, CIVIL LINES, MORADABAD-244 001, INDIA.

Inventor : BHUSAN LAL MITTAL.

Application for Patent No. 100/DEL/83 filed on 17th February, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

12 Claims

A crystallizer for allowing crystallization of sugar crystals in mother liquor characterized in at least a first tank, a second tank disposed in an adjacent and flow communication relationship to said first tank, a stirrer provided in each of said tanks, a heat exchanger having a cooking medium such as Water flowing therein provided with said second tank, an inlet provided with said first tank for introduction of the massecuitee and an outlet provided with said second tank for discharge of the massecuitee.

Compl. Specn. 12 pages. Drg. 1 sheet.

159675

Int. Cl. F16d—1/00.

"DEVICE FOR COUPLING".

Applicant : PAULWURTH S.A., OF 32 RUE D' ALSACE, LUXEMBOURG, GRAND-DUCHY OF LUXEMBOURG, A COMPANY ORGANISED UNDER THE LAWS OF LUXEMBOURG.

Inventors : PIERRE MAILLIET GUY THILLEN, LONARDI EMILEE, JOSEPH KOSTER, FERNAND TAPELLA.

Application for Patent No. 121/DEL/1983 filed on 24th February, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

18 Claims

A coupling device for coupling a working tool to a taphole rod of a molten metal vessel, comprising;

first housing means having a chamber therein for receiving a rod to be coupled;

entrance means at the front of said first housing means for passage of said taphole rod into said chamber;

jaw means in said chamber, said jaw means including at least two jaw elements spaced symmetrically about the longitudinal axis of said shamber and movable between a first position of disengagement from the rod and a second position of engagement with the penetration into the rod;

second housing means; and

pressurized fluid actuating means in said second housing means and connected to said jaw means for moving said jaw means between said first and second position sin a converging manner in a direction towards the entrance means.

Compl. Specn. 23 page. Drg. 4 sheets.

CLASS : 32 B & 56 E. 159676

Int. Class : Co7C-3/00; 5/00, 15/00.

"PROCESS FOR CONVERTING A FEEDSTOCK COMPRISING ALIPHATIC AND/OR ALICYCLIC HYDROCARBONS INTO AROMATIC HYDROCARBONS".

Applicant THE BRITISH PETROLEUM COMANY P.L.C., OF BRITANIC HOUSE, MOOR LANE, LONDON, EC2Y 9BU, ENGLAND, A BRITISH COMPANY.

Inventor : DENNNIS YOUNG.

Application for patent No. 232/DEL/83 filed on 7th April, 1983. Convention date April 29, 1982/8212526/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

11 Claims

A process for converting a feedstock comprising aliphatic and/or alicyclic hydrocarbons of the kind such as herein described into aromatic hydrocarbons by bringing a mixture in a fluid phase of said feedstock and an oxidising agent of the kind such as herein described other than molecular oxygen or a gas containing molecular oxygen into contact with a solid acidic catalyst of the kind such as herein described having Bronsted acid sites.

Compl. Specn. 12 pages.

CLASS : 126 B 159677

Int. Cl. : G01v-1/40, 3/18.

"VELOCITY WELL LOGGING APPARATUS".

Applicant EXXON PRODUCTION RESEARCH COMPANY OF 3120 BUFFALO SPEEDWAY, P.O. BOX 2189, HOUSTON, TEXAS 77001, U.S.A. A CORPORATION OF THE STATE OF DELAWARE, CARRYING ON BUSINESS AS A COMPANY FOR THE HOLDING OF PATENTS AND GRANTING LICENSES THEREUNDER, AND TECHNICAL DEVELOPMENT AND RESEARCH WORK AT HOUSTON, TEXAS, UNITED STATES OF AMERICA.

Inventors : GRAHAM ARTHUR WINBOW, SEN-TSUEN CHEN AND JAMES ALLEN RICE.

Application for Patent No. 255/DEL/1983 filed on 18th April, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

31 Claims

A velocity well logging apparatus comprising : a housing adapted to be raised and lowered into a well having a longitudinal axis;

signal gnerating means attached to the housing, including four members and a vibrating means coupled to four

members and capable of causing the four members to vibrate substantially simultaneously such that vibration of two of the four members generate two positive pressure waves and vibrations of the remaining two members generate two negative pressure wayes, wherein the four pressure waves so generated have an overlapping frequency range and a common component pressure wave with frequencies in such overlapping frequency range, and wherein the two positive pressure waves and two negative pressure waves will interfere to genrate a quandrupole shear wave in earth formation surrounding the well; and

signal detection means attached to the housing, said signal detection means being adapted to detect at least one point longitudinally spaced from said signal generating means the arrival of the sonic signals generated in the earth formation surrounding the well by said signal generating means, said point being spaced apart from the longitudinal axis of the well.

Compl Specn. 38 pages. Drg. 6 sheets

CLASS : 29 D 206 E 154678

Int. Cl. : G11b 17/00, 5/00.

"APPARATUS FOR CONTROLLING DUPLICATION OF DATA STORED ON FLEXIBLE DISKETTES".

Applicant : DENNISON MANUFACTURING COMPANY, A NEVADA CORPORATION WITH ITS PRINCIPAL PLACE OF BUSINESS AT 300 HOWARD STREET, FRAMINGHAM, MASSACHUSETTS 01701, U.S.A.

Inventor : ROBERT WAYNE HAMANN.

Application for Patent No. 402/DEL/1983 filed on 14th June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

An apparatus for controlling the duplication of data stored on flexible diskettes comprising a magnetically encodable master disk and a magnetically encodable slave disk, master disk drive means connected to the master disk for producing a master control signal essentially representative of the instaneous angular velocity of the master disk to control the rotation thereof, means connected to each disk drive for producing an index signal at a given angular position of the said disks and data copying means connected to said slave disk (20) for copying data stored on the master disk on to at least one slave disk.

means for producing a slave control signal representative of the master control signal, modified by said master and slave index signals said producing means being connected to said master disk drive means and said data copying means,

means for adjusting the angular velocity of the slave disk in accordance with said slave control signal said adjusting means being connected to said data copying means, and

actuating means connected to the data copying means for actuating the data copying means only when said master and slave index signals have a predetermined relationship.

Compl Specn. 13 pages. Drg. 2 sheets.

CLASS : 55E 2 [XIX(1)]. 159679

Int. Cl. A 61k 9/06, 27/00.

"A PROCESS FOR PREPARING A TOPICAL ANTI-INFLAMMATORY COMPOSITION".

Applicant : PFIZER CORPORATION, A CORPORATION ORGANISED UNDER THE LEWS OF THE REPUBLIC OF PANAMA, OF CALLE 15½, AVENIDA SANTA ISABEL, COLON, REPUBLIC OF PANAMA AND HAVING A COMMERCIAL ESTABLISHMENT AT 102 RUE LEON, THEODOR, JETTE, BRUSSELS 9, BELGIUM.

Inventors : KATSUMI OHYA & TOSNIJI KAWAZOE & SHIGENORI NOZAWA.

Application for Patent No. 404/DEL/1983 filed on 15th June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

7 Claims

A process for preparing a topical anti-inflammatory composition in gelointment form comprising in an aqueous system an effective anti-inflammatory amount of piroxicam; from 10% to 50% by weight of a lower alkanol having from one to four carbon atoms; a gel-forming amount of carboxyvinyl polymer; from 5% to 40% by weight of at least one polhydric alcohol selected from the group consisting of lower alkylene glycol having from two to six carbon atoms, glycerine and polyethylene glycol having an average molecular weight of from 200 to 2,000; and a piroxicam-solubilizing amount of at least one alkanolamine selected from the group consisting of monoalkanolamine having from one to four carbon atoms, dialkanolamine having from three to twelve carbon atoms; and optionally a film-forming amount of at least one film-forming agent selected from the group consisting of carboxymethyl cellulose, hydroxyethyl cellulose and polyvinylpyrrolidone, and sufficient water to total 100%, said composition having a pH range of from 6.5 to 9.0, characterized by :

(a) dispersing the carboxyvinyl polymer and if desired, the film-forming agent in water;

(b) blending the resulting aqueous dispersion with the lower alkanol and the plyhydric alcohol;

(c) dissolving the piroxicam in an aqueous solution of the alkanolamine; and

(d) finally combining the aqueous solution obtained in step (c) and the alcoholic mixture obtained in step (b) and thereafter subjecting the resulting final mixture to constant agitation to form a gal oinment.

Compl. Specn. 22 pages. Drg. 1 sheet.

CLASS : 32 F$_3$ c; 40 B and 182 B 159680

Int. Cl. B 01 j—11/00.

"PROCESS FOR THE ISOMERISATION OF GLUCOSE to FRUCTOSE".

Applicant : SOLVAY & CIE, OF 33 RUE DU PRINCE ALBERT, B-1050 BRUSSELS, BELGIUM, A BELGIAN COMPANY.

Inventors : GUILLAUME COPPENS AND JEAN PETRE.

Application for Patent No. 540/DEL/1983 filed on 08th August, 1983.

Divisional to Patent Application No. 5/DEL/1980 (153562) filed on 04th Jan., 1980.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

11 Claims

Process for the isomerisation of glucose to fructose which comprises isomerising an aqueous solution of glucose by means of a complex granules catalyst containing glucose isomerase fixed to water-insoluble, prous, mineral support,

such as herein described, said granules possessing cavities inside their structure, the majority of said cavities having average sizes of between 1 and 500 microns.

Compl. Specn. 22 pages.

CLASS : 32 F_3c; 40 B and 182 B 159681

Int. Cl. : B01 j—11/00.

"PROCESS FOR THE OXIDATION OF GLUCOSE TO GLUCONIC ACID".

Applicant : SOLVAY & CIE, OF 33 RUE DU PRINCE ALBERT, B-1050 BRUSSELS, BELGIUM, A BELGIAN COMPANY.

Inventors : GUILLAUME COPPENS AND JEAN PETRE.

Application for Patent No. 541/DEL/1983 filed on 08th August, 1983.

Divisional to Patent Application No. 5/DEL/80 (153562) filed on 04th January, 1980.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

11 Claims

Process for the oxidation of glucose to gluconic acid which comprises suspending in a solution of glucose and an alkali, complex granules catalyst containing glucose oxidase fixed to a water-insoluble, porous, solid mineral support, such as herein described, said granules possessing cavities inside their structure, the majority of said cavities having average sizes of between 1 and 500 microns.

Compl. Specn. 22 pages.

CLASS : 113-I. 159682

Int Cl. : F 21 s 1/00.

"A ROAD VEHICLE HEADLAMP COMPRISING A DISHED REFLECTOR".

Applicant : LUCAS INDUSTRIES PUBLIC LIMITED COMPANY OF GREAT KING STREET, BIRMINGHAM B19 2XF, ENGLAND.

Inventor 1. DAVID ALAN BIRT.

Application No. 1271/Cal/83 filed October 13, 1983.

Convention date 15th October, 1982 (8229538) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A road vehicle headlamp comprising a dished reflector provided with a front opening and a light source, and a light source shield arrangement providing a horizontal cut-off on both sides of the light source, said reflector having a pair of lateral courved reflective portions with coincident foci, wherein the lateral curved reflective portions have their optical axes mutually inclined vertically by such an extent that the beam pattern projected by the reflector from the shielded light source has, at 25 metres from the headlamp, (1) a lower beam portion having a horizontal upper cut-off and (2) an upper beam portion having a horizontal upper cut-off, the lower beam portion being provided by one of the curved reflective portions and the upper beam portion being provided by the other of the curved reflective portions, characterized in that (a) the light source is disposed below the horizontal median line of the headlamp, (b) the lateral curved reflective portions also have their optical axes mutually inclined horizontally, (c) the extent of the mutual horizontal and vertical inclinations of the lateral curved reflective portions is such that the beam pattern projected by the reflector from the shielded light source has, at 25 metres from the headlamp, an intermediate beam portion which is disposed between the upper and lower beam portions and which has a cut-off extending from one side of the upper cut-off of the lower beam portion to an adjacent side of the upper beam portion, and (d) the intermediate beam portion is provided by said other of the curved reflective portions.

Compl. Specn. -19 pages. Drg. 4 sheets.

159683

Class 32-F 2b

Int. Cl. A 01 n 9/00; C 07 d 49/34.

PROCESS FOR PREPARING SUBSTITUTED IMIDAZOLINYL PYRIDINE OR QUINOLIWE COMPOUND

Applicant : AMERICAN CYANAMID COMPANY, AND HAVING ITS EXECUTIVE OFFICES AT WAYNE, NEW JERSEY, UNITED STATES OF AMERICA.

Inventor : 1. MARINUS LOS.

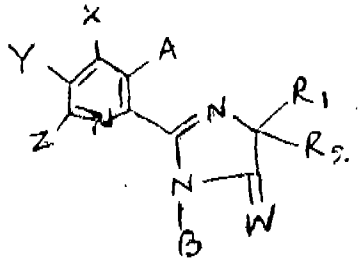
Application No. 1273/Cal/83 filed October 13, 1983.

Division of Application No. 586/Cal/81 dated 1st June, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim

A process for the production of a compound of the formula I of the accompanying drawings.



I

wherein

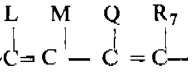
A is H or $COOR_3$ wherein R_3 is hydrogen, diloweralkylimino, C_1—C_{12} alkyl optionally substituted with one of the following groups : C_1—C_3 alkoxy, halogen, hydroxyl, C_3—C_6 cycloalkyl, benzyloxyl, furyl, phenyl, halophenyl, loweralkylphenyl, lower-alkoxyphenyl, nitrophenyl, carboxyl lower-alkoxycarbonyl, cyano or triloweralkylammonium; C_3—C_{12} alkenyl optionally substituted with one of the following groups : C_1—C_3 alkoxy, phenyl, halogen or loweralkoxycarbonyl or with two C_1—C_3 alkoxy groups or two halogen groups; C_3—C_6 cycloalkyl optionally substituted with one or two C_1—C_3 alkyl groups; C_3—C_{10} alkynyl optionally substituted with one or two C_1—C_3 alkyl groups; or, a cation selected from the group consisting of alkali metals, alkaline earth metals, manganese, copper, iron, zinc, cobalt, lead, silver, nickel, ammonium and organic ammonium;

R_1 is C_1—C_4 alkyl;

R_2 is C_1—C_4 alkyl or C_3—C_6 cycloalkyl; and when R_1 and R_2 are taken together they may represent C_3—C_6 cycloalkyl optionally substituted with methyl ;

Y and Z each represent a member selected from the group consisting of hydrogen, halogen, C_1—C_6 alkyl, C_1—C_4 hydroxyloweralkyl, C_1—C_6 alkoxy, C_1—C_4 alkylthio, phenoxy, C_1—C_4 aloalkyl, nitro, cyano, C_1—C_4 alkylamino, diloweralkylamino or C_1—C_4 alkylsulfonyl group, or phenyl optionally substituted

with one C_1—C_4 alkyl, $_1C$ —C_4 alkoxy or halogen; and, when taken together, Y and Z may form a ring in which YZ are represented by the structure : —$(CH)_{2-n}$, where n is an integer selected from 3 and 4, provided that X is hydrogen; or

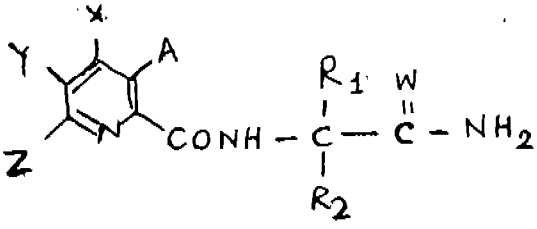


where L, M, Q and R7 represent members selected from the group consisting of hydrogen, halogen, C_1—C_4 alkyl, C_1—C_4 alkoxy, C_1—C_4 alkylthio, C_1—C_4 alkylsulfonyl, C_1—C_4 haloalkyl, NO_2, CN, phenyl, phenoxyl, amino, C_1—C_4 alkylamino, diloweralkylamiro, chlorophenyl, methylphenyl or phenoxy substituted with one C_1 CF_3 NO_2 or CH_3 group, with the proviso that only one of L, M, Q and R_7 represents a substituent other than hydrogen, halogen, C_1—C_4 alkyl or C_1—C_4 alkoxy;

W is O or S;

B is H,

characterized by cyclization of a compound of the formula III.



III

wherein X, Y, Z, A, R^1 R^2 and W are as defined before, using agents like phosphorus pentachloride and phosphorus oxychlorid .

Compl. Specn. 26 pages. Drg. 12 sheets.

CLASS 136-E. 159684

Int. Cl. : B 29 q 7/02.

"PROCESS AND APPARATUS FOR THE PRODUCTION OF A PLASTICS FOIL POSSESSING A COLOUR TRIP WITH DFERENTIAL COLOUR INTENSITY.

Applicant : DYNAMIT NOBEL AKTIENGESELLSCHAFT, OF POSTFACH 1209, 5210 TROISDORF, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. HORST PABST.

Application No. 1308/Cal/83 filed October 24, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

Process for the production of a plastics foil possessing a coloured strip with differential colour intensity, in which a melt flow of a thermoplastic synthetic resin plasticised in an extruder is supplied to a broad slit tool and is spread out over a distribution channel with constriction zone in the transverse direction to the foil exrtusion direction and then flows parallel to the extrusion direction through a forward zone whose height is adjustable to the nozzle outlet gap and a further melt flow formed of coloured thermoplastic synthetic resin is injected into this melt flow before the nozzle outlet, characterised in that a colourless and a coloured melt flow are formed respectively to foil (20a, 20b respectively) of desired width Ba or Bb respectively and before leaving the nozzle are welded with one another along a side edge to the foil (20) of the width Ba + Bb and, in a width Bc calculated from the transitional line (27) of the coloured foil 20b into the region of the coloured foil (20a), a coloured strip (20c) extending in a wedge sape is introduced from a partial flow (2c) of the coloured melt flow (2) through a broad slit nozzle located, seen in the extrusion direction before the damming bar and after the distribution channel, with wedge shaped outlet gap (24), with corresponding constriction of the colourless melt flow (1).

Compl. Specn. 15 pages. Drg. 5 sheets.

CLASS : 129-K. 159685

Int. Cl. B 23 g 5/00.

"SELF-CUTTING THREADING-INSERT.

Applicant : KERB-KONUS-BERTRIEBS-GmbH, OF D-8454 SCHNAITTENBACH, WEST GERMANY.

Inventor : 1. BERNHARD STOVEKEN.

Applicant No. 1342/Cal/83 filed October 31, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

Self-cutting threading insert having an external thread (1), which comprises the pitch T, and having a cutting slot (3) extending in the axial direction and at right angles to the axis of the threading insert, and a chamfer (11, 12) at the screw-in end of the said threading insert which can be screwed into a smooth bore of a work piece, the thread profile of the cutting slot (3) cutting into an internal thread in the bore, characterized in that the beginning of the external thread (1) at the front surface (7) of the screw-in end substantially has a defined position in relation to the cutting slot (3) to obtain a defined cutting edge profile, regardless of the type of material of the work piece, in the bore of which the threading insert is inserted.

Compl. Specn. 13 pages. Drg. 2 sheets

Class : 133-B. 159686

Int. Cl. HO_2 n 11/00.

STEP BY STEP MOTOR FOR ELECTRONIC CLOCKS.

Applicant : TESLA, KONCERNOVY PODNIK, OF PRAHA, CZECHOSLOVAKIA.

Inventor : 1. JOSEF VECER.

Application No. 1343/Cal/83 filed October 31, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

Step by step motor, particularly suitable for electronic clocks comprising an excitation coil, a two or more pole rotor made of a permanent magnet and oppositely situated superposed couples of stator sheets, characterised in that the pole shoes of stator sheets (la, lb or lc, ld, le, lf) are situated eccentrically with respect to the rotor and either one to (n — 1) couples of stator sheets (lc, ld) from the overall number of n couples of stator sheets (lc, ld, le, lf) are provided with a recess (llb) within the whole thickness of stator sheets (lc, ld), whereby the minimum number of couples of stator sheets (lc, ld, lc, lf) is equal to two, or with a recess (lla) within part of the thickness of stator sheets (la lb) is provided each single to n th couple of stator sheets (la, lb) is equal to one said recesses (lla, llb) are circumferentially limited by two straight lines, one of said lines (X-X") closes with the axis (Z-Z') dividing the air gap (4) between couples of stator sheets (la, lb or lc, ld, le, lf) and the rotor (2) to two halves and passing through the axis of the rotor (2) an angle which is larger than 15° and the other straight line (X-X') closes with the axis (Z-z') an angle which is smaller than 130°.

Compl. Specn. 10 pages. Drg. 2 sheets.

Class : 4-A_4, 7. 159687

Int. Cl. : B 65 d 83/14.

DEVICE FOR THRUST CONTROL BY MEANS OF TURBULENCES.

Applicant & Inventor : WINFRIED JEAN WERDING, OF 77, AVENUE DU GENERAL GUISAN, 1009 PULLY, SWITZERLAND.

Application No. 1366/Cal/83 filed November 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

26 Claims

Device for thrust control by means of turbulences consisting of a step piston (2) which rest upon a pressure spring (3) in the interior of a discharge channel (8a) of a medium (18) being under pressure in the interior of the container characterized in that the size of step piston (2) being in proportion to that of the discharge channel (8a) such that a minimum opening for the discharge of the medium (18) is provided during the entire ejection process, said piston (2) has different dimensions at the ends of the surfaces (12; 14), the larger surface (14) located opposite to the flowing direction of the medium (18), said step piston rests upon a spring (3) being adapted to be compressed at a given pressure within the container such that the step piston (2) takes a first end position through which it decreases the opening area of the discharge channel (8a) to a minimum and that the spring loses tension proportionally to the pressure drop due to the discharge of the medium (18) from the container and shifts the piston (2) such that the opening of the discharge channel (8a) increases gradually until the step piston (2) has reached a second end position as soon as a given minimum pressure has been reached in the container, the shape of said step piston (2) being in proportion to that of the discharge channel (8a) such that at least an approximately constant sum of the multiplied pressures in the container is maintained, through the remaining opening, said discharge channel (8a) ending in a circular chamber (23) from which channels (24) are radiating, each of which form a tangent with the circumference of the chamber (23) and end into a recess (19a) from which supply channels (21) of the spray nozzle (5) are radiating such that the tangential channels (24) of the chamber (23) from a right angle to the discharge channel (8a) and the supply channels (21) of the spray nozzle (5), the front side of the end (12) of the step piston (2) being adapted to rest firmly on the opening side of the spray-nozzle core (4) at the highest pressure in the container, the openings between the step piston (2) and the inner wall of the discharge channel (8a) narrows down towards the bottom end, said spring (3) adapted to be compressed at a given pressure exerted upon the surface of the medium (18), said piston (2) capable of resting firmly upon the opening side of core (4) of the spray nozzle (5).

Compl. Speen. 16 pages. Drg. 6 sheets.

OFFICIAL PROCEEDINGS

(1)

An opposition has been entered by Council of Scientific & Industrial Research to grant of a patent on application No. 158345 dated 18th May 1983 made by M/s. Punjab Tractors Ltd.

(2)

An opposition has been entered by M/s. I.E.L. Limited, Calcutta on Patent Application No. 158385 made by I.D.L. Chemicals Limited, Hyderabad.

(3)

An opposition has been entered by M/s. National Research Development Corporation of India, New Delhi on Patent Application No. 158410 made by M/s. Indian Institute of Technology, Madras.

(4)

An opposition has been entered by the Director General R.D.S.O. to the grant of a Patent on application No. 158422 made by Dr. Anil Krishna Kar.

CLAIM UNDER SECTION 20(1)

In pursuance of leave granted under section 20(1) of the Patents Act, 1970, the application No. 154999 (296/BOM/81) is allowed to proceed in the name of SCHUBERT & SALZER MASCHINENFABRIK AKTIENGESELLSCHAFT., a company organized under the laws of the Federal Republic of Germany, Friedrich-Ebert-Strasse 9, D 8070, Ingolstadt, Federal Republic of Germany.

PATENTS SEALED

143974	144336	148824	149263	154323	154999	155134
156141	156428	156564	156565	157183	157469	157523
157524	157525	157526	157527	157528	157529	157531
157532	157534	157535	157536	157539	157542	157543
157544	157545	157546	157547	157549	157550	157553
157555	157556	157560	157561	157562	157563	157564

ELEC. ENGG. LIST—I.

COMMERCIAL WORKING OF PATENTED INVENTION

The following Patents in the field of Electrical Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statement filed by them under Section 146(2) of Patents Act, 1970 in respect of Calender Year 1985 generally on account of want of requests for licences to work the Patented inventions. Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of a license for the purpose.

Patent No.	Date of Patent	Name and Address of Patentee.	Title of the invention
1	2	3	4
136940	20-6-1972	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India.	An ultrasonic interferometer.
137749	27-12-1972	Do.	An apparatus for making three dimensional panoramic Photographic diplays to be seen without any viewing aid.

1	2	3	4
143016	19-11-1975	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi, Marg, New Delhi 1, India.	Improvement in or relating to the manufacture of grids for transmitting tubes having the orlated tungsten.
143265	3-12-1975	Do.	Logic control system for 12 step three phase thyrister inverter.
143301	19-2-1977	Do.	Piezo electric micrometer.
143683	8-1-1976	Do.	An improved mobile amplitude moulated trans-receiving apparatus.
146419	22-12-1979	Do.	Magnetic particle clutch.
147939	11-8-1978	Do.	A remote control hydraulic settlement gauge.
148412	15-12-1978	Do.	An improved process for the electrolytic production of glyoxylic acid from oxalic acid.
150471	11-9-1979	Do.	Improved process for the production of maganese metal by electrolysis.
153303	25-11-1980	CSIR, New Delhi-1, India.	Process for direct Nickle and chromium plating of substrates of aluminium and its alloys for solar collector applications.
153367	1-12-1980	Do.	A process for the production of electrically coated with indium-tin oxide to provide transporent electrically thereon.
153506	19-12-1979	Do.	Multipurpose telephone device for mines.
153515	22-12-1980	Do.	An improved process for the electrodeposition of coating an metal substrater.
153543	19-12-1979	Do.	Telephone device for miner.
153546	28-12-1979	Do.	An improved device for the conversion of a signal from a non-lineer transducer to linear digital form suitable for display.
153551	5-1-1980	Do.	An improved antenna device for omnidirectional radio communications.
153637	19-12-1979	Do.	Manual telephone exchange for mines.
153766	23-12-1980	Do.	Flectionic device for measuring the internal pressure in sealed containers.
153823	12-6-1981	Do.	An improved process for the fabrication of of porous bicarbon-air electrode for metal-air colls and porous bicarbon air electrodes.
153824	11-6-1981	Do.	An improved electrolylic process for the production of chromium deposits an nickel plated metal substrates for obtainingdecorative nickel-chromium finishes thereon.
153861	8-5-1981	Do.	An audio visual film strip propeator device for frame by frame projection of a film strip.
150419	26-12-1978	THE BENDIX CORPORATION, Executive Offices, Bendix Centre, Southfieldm Michigan 48076, U.S.A.	A fixture for the electroplating of electrical contacts.
153027	24-9-1979	Do.	Electrical connector.
153060	24-9-1979	Do.	Electrical connector assembly having improved.
153105	24-9-1979	Do.	Electrical connector assembly.
153117	24-9-1979	Do.	Electrical contact extraction tool.
153464	18-12-1979	Do.	Electrical connector assembly having improved antidocoupling mechanism.

1	3	3	4
154286	12-5-1980	THE ENGLISH ELECTRIC COMPANY LIMITED, 1, Stanhope Gate, London W1A, 1EH, England.	Apparatus for identifying faults in electric power transmission systems.
153727	29-9-1980	THE ENGLISH ELECTRIC COMPANY LIMITED, 1, Stanhope Gate, London W1A 1EH, England.	Apparatus for identifying faults in electric power transmission systems.
154727	29-9-1980	Do.	Electric fuse.
153224	18-9-1979	UNION CARBIDE CORPORATION, 270, Park Avenue, New York, State of New York 10017 U.S.A.	Battery.
153627	30-1-1980	Do.	Non-aqueous electrochemical cell.
154298	23-6-1980	Do.	Non-aqueous cell.
153807	10-3-1980	ASEA AKTIEBOLAG VASTERAS, Sweden.	Convertor for high voltage direct current power transmission.
152383	11-6-1979	FLIR SYSTEMS INC. 700 SW, Hampton Street, Suite 238, Tigards, Orogon, U.S.A.	An optical scanner.
152994	10-8-1979	ELLIOTT BROTHERS (LONDON) LIMITED, Merconi House, New Street, Chelmsford, Essex CM1 1PL, England.	Display units for head up displays.
153592	23-1-1980	SUCHI CHIU, 5th Floor, No. 15 Lane, 180, Ho-Chiang, Street, Taipei, Taiwan, Republic of China.	Telephone apparatus with memory stored dialing data for automatic dialing.
137421	5-2-1973	MASCHINENFABRIK REINHAUSEN GEBRUDER SCHEUBECK KG. Falkensteinstrasse 84, Regensburg, F.R.G.	A transformer housing.
145392	7-12-1976	AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, P. O. Polytechnic, Ahmedabad-15, Gujarat, India.	A device or instrument for tracing the profile of cams or tappets and plotting any paramater which is a function or a camp profile.
148449	28-10-1977	Do.	Computer circuit to analyse humidity conditions in Hot Air Dryers.
145925	8-7-1976	DURACELL INTERNATIONAL INC. 3029, East Washington Street, Indianapolis, Indiana, U.A.S.	Vant for electrical devices such as primary & secondary electrochemical cells, method of making the rent & electrochemica cells, comprising the rent.
151381	15-11-1979	Do.	Alkaline electrochemical cell.
151319	15-11-1979	Do.	Electrochemical cells containing fluid depolanisers.
151757	24-1-1979	Do.	Battery Package with de tode conrenrfoe.
153252	3-7-1980	Do.	An improved non aqueous electrochemical cell evincing reduced raltage delay.
153324	20-9-1980	Do.	Electrochemical cell resistant to cell abruse.
153325	20-9-1980	Do.	Improved nonaqueous electrochemical cell.
153326	20-9-1980	Do.	Electrochemical cell resistant to cell abuse.
151324	24-4-1980	M/s. PEICO ELECTRONICS, AND ELECTRICALS LIMITED, Shirsagar Estate, 'A' Block, Dr. Annie Besant Road, Worli, Bombay-400 018, Maharashtra, India.	A circuit for automatically switching off power supply to a radio on television when the turned signal goer off the air in interrupted and a radio or television having the same.
153127	17-11-1980	ORONZIO DE NORA IMPIANTI, Elettrochimici S.P.A. At Via. Bistolfi 35, 20134, Milan, Italy.	A bipolar diaphragm or membrane electrolyzer.

ELECTRICAL ENGG. LIST NO. II

COMMERCIAL WORKING OF PATENTED INVENTION

The following Patents in the field of Electrical Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under Section 146(2) of the Patents Act 1970 in respect of calender year 1985, generally on account of want of requests for licences to work the Patented inventions. Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of licence for the purpose.

Patent No.	Date of Patents	Name & Address of the Patentees	Title of the invention.
1	2	3	4
134853	7-3-1972	AMERICAN COMPANY of Wayne, New Jersey, U.S.A.	Electro-chemical current producing cell.
135293	17-4-1972	WESTINGHOUSE ELECTRIC CORPORATION of Pittsburgh, Pennsylvania U.S.A.	Plug-in bus duct with head dissipation means.
135701	12-5-1972	CANNON KABUSHIKI KAISHA of 30-3, 3-chome, Shimomaruku, Ohta-ku, Tokyo Japan.	Electrophotographic copying machine.
135883	8-8-1972	UNION CARBIDE CORPORATION OF 270 Park Avenue, New York State of New York 10017, U.S.A.	Resealable vent closure for sealed galvanic dry cell.
135943	30-10-1972	STORA KOPPARBERGS BERGSLAGS AKTIEBOLAG, Sweden.	Method ofor simultaneous combined production of electrical energy and crude irons.
136199	16-9-1972	IMPERIAL CHEMICAL INDDSTRIES LTD. of Imperial Chemical House, Mill bank, London SW 1, England.	Electrodes for electrochemical process and a method for the manufacture thereof.
136216	27-12-1972	UNION CARBIDE CORPORATION OF 270 Park Avenue, New Yorik, State of New York 10017, U.S.A.	Non-aqueous electro-chemical cell.
136295	4-7-1972	WESTINGHOUSE ELECTRIC CORPORATION OF Pittsburg, Pennsylvania, U.S.A.	Rotors for synchronous dynamoelectiic machines.
136407	28-3-1972	UNION CARBIDE CORPORATION of 270 Park Avenue, New York, State of New York 10017, U.S.A.	Improvements in or relating to galvenic cells.
137351	9-1-1973	ALLMNA SVENSKA ELECTRISKA AKTIEBOLAGET, of Vesteras, Sweden.	Insulating part of electric switching device.
137701	24-1-1973	ISHIKAWAJIMA HARIMO JUKOGYO KABUSHIKI KAISHA, of 2-1-2-chome, Otemachi, Chiyoda-ku, Tokyo to Japan.	Electric direct arc-furnace.
137713	16-4-1973	RCA CORPORATION OF 30, Rockfeller, Plaza, New York 10020, U.S.A.	Leakage current prevention in conductor integrated circuit devices.
138001	15-1-1973	ANTONIO BRANDESTINI, of Alle Lovel strasse 60, Kusnacht, Switzerland.	Wire cable anchoring assembly.
138046	15-5-73	N.V. PHILIPS' GLOEILAMPENF AB-RIEKEN, of Emmasingel 29, Eindhoven (Holland)	System for the transmission of signals by companded lelta modulation.
138095	17-12-1973	WESTINGHOUSE ELECTRIC CORPORATION of Westinghouse Bldg. Gateway Center Pittsburgh Pennsylvania, 15222 U.S.A.	Shielded conductors in a diskwinding for an electrical inductive device.
138313	23-4-1973	F.L. SMIDTH & CO A/S of 77 Vigerslev Alle DK-2500 Copenhegen valby Denmark.	Electrostatic dust preipitator.
138590	2-3-1973	THE ELECTRIC ACTUATOR CO LTD. of Bolling Road Bradfor 4, in the Country of York England.	Improvements in or relating to electric actuator.

1	2	3	4
139051	15-3-1973	N.V. PHILIPS' GLOEILAMPENFAB-RIKKEN at Emmasingel Eindhoven The Netherlands.	Semi conductor device and method of manufacturing the device.
139058	19-4-1974	MOSEBACH MANUFACTURING CO of 1115 Arilington Avenue Pittsburgh Pennsylvania 15203 U.S.A.	Grid resistor.
138370	25-5-1974	FERRANTI LTD of Hollinwood In the country of Lanchshire England.	Apparatus for checking and correcting the geading alignment of an inertial plant form carried by a vehicle.
138463	21-11-1973	ALIMNNA SVENSKA ELECTRISKA A TIE BULAGET of Vesteras Sweden.	Series capacitor bank for achieving an interrupted stabilization of the conduction of operation in high voltage electric power supply networks.
139475	10-8-1973	GIRLING LTD of Kings Road Tyseley Birmingham 11 England.	Improvements in or relating to electrical plug and socket connectors.
139967	12-11-1973	WESTINGHOUSE ELECTRIC CORPORATION Pittsburgh Pennsylvania U.S.A.	Circuit interruptor comprising electromagnetic opening means.
139985	26-6-1972	N.V. PHILIPS' GLOEILAMPENFAB-RIENKEN of Emmagingel 29 Eindhoven (Holland).	System for locating faulty line repeaters of repeaters station in a transmission line.

ELECTRICAL ENGG. LIST NO. I

COMMERCIAL WORKING OF PATENTED INVENTION

The following Patents in the field of Electrical Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under Section 146(2) of the Patents Act 1970 in respect of calendar year 1984 generally on account of want of requests for licences to work the Patented inventions. Persons who are interested to work the said Patents commercially may contact the Pantentees for the grant of licence for the purpose.

Patent No.	Date of Patents	Name & Address of the Patentees.	Title of the invention.
121008	21-4-1969	N.V. PHILIPS' GLOEILAMPENFAB-RIEKEN Emmasingel 29 Eindhoven (Holland)	Capacitor charge transferring device.
127004	9-6-1970	GEBRUDER Moller Glasblasserei Inhaber Willi Moller of Gubelstrasse 37 Zurich Switzerland a Swiss firm.	Measuring electrode for measuring of ions in solutions.
127088	15-6-1970	N.V. PHILIPS' GLOEILAMPENFAB-RIEKEN Emmasingel 29 Eindhoven (Holland).	Semiconductor device comprising an insulated gate field effect.
130470	4-3-1971	COMBUSTION ENGINEERING INC. of 1000 Prospect Hill Road Windsor Connecticut U.S.A.	Fuel burner safety control circuit capable to distinguishing between power interruption & emergency operations.
131288	7-5-1971	EGON SCHEULBACK 5 Eichenstrasse Zeitlarn Rogensburg F.R.G.	Stage selector for regulating transformers.
132466	11-8-1971	ELECTRICAL COMPANY of 1 River Road Schenectady New York U.S.A.	Sintered intermetallic product and magnets produced therefrom.
132597	20-8-1971	N.V. PHILIPS' GLOEILAMPEN-FABRIEKEN of Emmasingel 29 Eindhoven Holland.	Method of manufacturing a semi-conductor device and semi-conductor device manufactured by the method.
133925	13-12-1971	THE ENGLISH ELECTRIC COMPANY LTD. of 1 Stanhope Gate London W1A EH England.	High voltage monitoring systems.
134371	24-1-1972	EGON SCHEUBECK of 5 Eichenstrasse zeitlern Regensburg West Germany.	Stepping switch for regulating transformers
134853	7-3-1972	AMERICAN COMPANY of Wayne New Jersey U.S.A.	Electro-chemical current producing cell.
135293	17-4-1972	WESTINGHOSE ELECTRIC CORPORATION of Pittsburgh Pennsylvania U.S.A.	Plug-in bus duct with head dissipation means.

1	2	3	4
135883	8-8-1972	UNION CARBIDE CORPORATION OF 270 Park Avenue, New York, State of New York 10017, U.S.A.	Resealable vent closure for sealed galvaniodry cell.
136216	27-12-1972	UNION CARBIDE CORPORATION OF 270 Park Avenue, New York, State of New York 10017, U.S.A.	Non-aqeous electro-chemical cell.
136295	4-7-1972	WESTINGHOUSE ELECTRIC CORPORATION OF Pittsburgh, Pennsylvania, U.S.A.	Rotors for synchronous dynamoelectric machines.
136407	28-3-1972	UNION CARBIDE CORPORATION of 270 Park Avenue, New York, State of New 10017, U.S.A.	Improvements in or relating to galvanic cells.
136998	29-1-1973	WESTINGHOSE ELECTRIC CORPORATION OF PITTSBURG, Pennsylvania, U.S.A.	Rectifier assembly for brushless oxidation systems.
137027	27-12-1972	UNION CARBIDE CORPORATION OF 270 Park Avenue New York, State of New York-10017, U.S.A.	Primary dry cell with anode cup bottom protection.
137421	5-2-1973	MASCHINENFABRIK REINHAUSEN GEBRUDER SCHEUBECK KG. of 8 Falkensteinstrasse 84, Regenburg, F.R.G.	A transformer housing.
137701	24-1-1973	ISHIKAWAJIMA HARIMO JUKOGYO KABUSHIKI KAISHA, of 2-1-2-chome Otemachi, Chiyoda-ku, Tokyo to Japan.	Electric direct arc-furnace.
138001	15-1-1973	ANTONIC BRANDESTINI of Alle Lovel strasse 60 Kusnacht, Switzerland.	Wire cable anchoring assembly.
138046	15-5-1973	N.V. PHILIPS' GLOELLAMPEN FABRIEKEN of Emmasingel 29, Eindhoven (Holland)	System for the transmission of signals by companded delta modulation.
138047	31-5-1973	HITACHI L,TD. of 4 1-chome, Marunouchi, Chiyoda-ku Tokyo, Japan.	Shielded conductors in a diskwinding for an electrical inductive device.
138095	17-12-1973	WESTINGHOUSE ELECTRIC CORPORATION of Westinghouse Bldg. Gateway, Center Pittsburgh Pennsylvania, 15222, U.S.A.	A method of making a thyristor.
138096	27-12-1973	CKD PRAHA OBOROVY PODNIK Praha Czechoslovakia.	A cooling system.
138313	23-4-1973	F.L. SMIDTH & CO. A/S of 77 Vigerslev alle DK-2500, Copenhagen Vallby, Denmark.	Electrostatic dust preipitator.
138368	18-4-1973	RCA CORPORATION of 30 Rockfeller Plaza, New York, New York 10020, U.S.A.	A color image composite signal translating system.
138370	25-5-1974	FERRANTI LTD. of Hollinwood in the country of Lanchshire England.	Apparatus for checking and correcting the heading alignment of an inertial plant form carried by a vehicle.
138463	21-11-1973	ALJMNNA SVENSKA ELECTRISKA AKTIEBULAGET, of Vasteras, Sweden.	Series capacitor bank for achieving an interrupted stabilization of the conduction of operation in high voltage electric power supply net works.
138590	2-3-1973	THE ELECTRIC ACTUATOR CO. LTD. of Bolling Road, Bradford 4, in the country of York, England.	Improvements in or relating to electric actuator.
138676	4-4-1974	SIEMENS AKTIENGESELLSCHAFT, of Berlin and Munich, West Germany.	Circuit for processing binary signals.
138818	19-12-1973	SIEMENS AKTIENGESELLSCHAFT, of Berlin & Munich, West Germany.	Signal holding circuitry for example circuitry used within a step control systems.
138914	18-9-1973	HITACHI LTD., of 4-1-Chome, Marunouchi, Chiyoda-ku, Tokyo, Japan.	Circuit interrupting device.
139058	19-4-1974	MOSERBACJ MANUFACTURING CO. of 1115, Arlington Avenue, Pittsburgh, Pennsylvania 14203, U.S.A.	Grid resistor.

1	2	3	4
139271	12-11-1974	HITACHI LTD., of 5-1, 1-Chome, Marunouchi, Chiyoda-ku, Tokyo, Japan.	Chopper control system.
139272	18-4-1973	RCA CORPORATION, of 30 Rockfeller Plaza New York, New York 10020, U.S.A.	A color image translation system.
139424	24-5-1974	USS. INGINEERS & CONSULTANTS INC. of 600 Grant Street, Pittsburgh, Pennsylvania, U.S.A.	Method for uniform electroplating of sheets and strip.
139475	10-8-1973	GIRLING LTD. of Kings Road, Tyseley Birmingham 11, England.	Improvements in or relating to electrical plug and socket connectors.
139967	12-11-1973	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, U.S.A.	Circuit interuptor comprising electromagnetic opening means.
139985	26-6-1973	N.V. PHILLIPS' GLOEILAMPENFABRIENKEN, of Emmasingel 29, Eindho en (Holland).	System for locating faulty line repeaters of repeatrers station in a transmission line.
140105	26-7-1974	SIEMENS AKTIENGESELISCHAFT, of Berlin & Munich, West Germany.	Improvements in or relating to microwave circulators.
140142	19-2-1976	THE FERTILIZER (Planning & Development), INDIA LTD. P. O. Sindri, Distt. Dhanbad, Bihar, India.	Electronic palarograph.
140180	10-12-1973	BUNKER RAMO CORPORATION, 900 Commerce Drive, Oak Brook, Illinois, U.S.A.	Coaxial electrical connector.
140346	7-7-1973	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, INDIA.	A process for the manufacture of trilaminates suitable for use as sensing elements for cartridgen in record players or microphone.
140386	6-3-1975	SIEMENS AKTIENGESELLSCHAFT, of Berlin & Munich, West Germany.	An electromagnetically operable switch arrangement.
140869	4-2-1975	SIEMENS A.G. of Berlin & Munich, West Jermany.	Electromagnetically operable switch gear.
141057	27-12-1973	GOULD INC. of 1110, Highway, 110, Mandota Heights, Minnesota, U.S.A.	A method of making a lead acid storage battery and battery itself capable of activation by the addition of electrolyte.
141177	16-10-1973	E.I. DU PONT DE NEMOURS & CO. of Wilmington, Delaware, U.S.A.	An electrolytic process and electrolytic cells thereof.
141250	19-2-1975	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, INDIA.	Improvements in or relating to etching of aluminium or its alloy for use as electrode in aluminium electrolytic capacitor.
141874	23-8-1976	BHARAT HEAVY ELECTRICALS LTD. Express Building, 1st Floor, 9-10 Bahadur Shah Marg.	Over heading protection system especially for electrical equipment.
141883	1-5-1973	LES FORGES DE ZEEBRUGGE S.A. of 71 to 145 Rue Bellenay 4400, Herstaller Liege, Belgium.	A power source of proparellant for a rocket motor.
141958	17-10-1974	HITACHI LTD., of 5-1, 1-Chome, Marunouchi, Chiyodaku, Tokyo, Japan.	Regenerative break control system for DC motor.
142096	27-2-1974	VELAGAPUDI MARUTI RAO, P.B. No. 714-38, Mount Road, Madras-60006, Tamil Nadu.	Process or the electrostate precipitation of entraized particles and droplets from gas stream.
142097	11-4-1974	SIEMENS AKTIENGESELLSCHAFT, D-800, Munchen 22, Postfach 251, Weest Jermany.	Switching device.
142388	4-6-1974	SIEMENS AKTIENGESELLSCHAFT, of Berlin & Munich, West Jermany.	An electromagnetic switching device.
142590	31-5-1974	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, of Rafi Marg, New Delhi-1, India.	Normal beam process for ultra sonic non-destructive testing.
143030	25-3-1975	FRENCH STATE, of 4 Avenue de La Ports, D' Issy, 75996, Paria Avenue, U.S.A.	Power plant.

1	2	3	4
143065	26-8-1974	INTERNATIONAL BUSINESS MACHINES CORPN. Armonk, New York, 10504, U.S.A.	A method and apparatus for recording or reproducing data in arabic script.
143264	28-8-1974	GOULD INC. 1110, Highway 110, Mendoto, Heights, Minnesota, USA.	A method of making a lead-acid storage battery and the battery itself capable of activation by the addition of electrolyte.
143360	28-4-1976	BHARAT HEAVY ELECTRICALS LTD., 18-20, Kasturba Gandhi Marg, New Delhi-110001, INDIA.	Double shrouding of gas in tungsten inert gas welding.
143495	8-10-1975	JASBIR SINGH BAJAJ, of 8 Jamshedji Tata Road, Churchgate City of Bombay, State of Maharashtra, India.	Improvements in or relating to horological or chronomataric instruments and in particular to an electronic solid state automatic time adaptive watch on clock.
143622	8-10-1975	DIAMOND SHAMROCK CORPORATION, 1100 Superior Avenue, Cleveland, Ohio, USA.	Chloroalkali electrolysis cell employing ethylene diamine modified membrances.
143806	5-6-1975	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India.	A new method for the production of master alloy of aluminium magnesium.
143902	30-5-1974	WALTER ALLOEN PLUMMER, 3546, Crownridge Drive, Sherwan, Oaks, California 91403, U.S.A.	Cable splic assembly.
143928	18-9-1975	GOULD INC. 8550, West Brya mawr Avenue, Chicago, Illinois, U.S.A.	Grid for use in lead acid batteries and lead acid batteries containing the same.
143932	16-2-1976	AJIT KUMAR BHATTACHARYA, Block No. 9/5 Citizen's Co-operative Housing Society, 103 Manicktola, Main Road, Calcutta-700054, West Bengal India.	A Commutator such as employed in a automobile dynamo and like dynamo and method of manufacture thereof.
144073	8-4-1975	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India.	An electro optical display device.
144077	2-6-1975	LICENTIES PATENT VERWALTUNGS G.mbH., 1, Theoder Stern Kai 6 Frankfurt, Main 70, F.R.G.	Arrangemont with a hollow section wave guide.
144117	5-6-1975	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India.	Improvements in or relating to the process for the production of positive active material for pocket type and passed mass type nickel cadimium cells.
144171	16-9-1977	BHARAT HEAVY ELECTRICALS LTD., 18-20, Kasturba Gandhi Marg, New Delhi-1. India.	An improved control system for slip ring induction motors or synchronous induction motors.
144230	5-10-1976	GENERAL ELECTRIC COMPANY, 1 River Road, Schenectady, State of New York, U.S.A.	Reference signal circuit.
144466	11-6-1976	BHARAT HEAVY ELECTRICALS LTD., 18-20, Kasturba Gandhi Marg, New Delhi-1, INDIA.	An over voltage protective device for current transformers.
144469	27-12-1973	GOULD INC. 1110 Highway 10, Mendata Heights Minnesota, U.S.A.	Method of treating the plants to be used in the lead acid storage battery.
144647	27-10-1976	GENERAL ELECTRIC COMPANY, 1 River Road, Schenectady, 5 New York, U.S.A.	Apparatus for collecting pyrolysates from a gas cooled dynamoelectric machine.
144693	26-2-1976	SIEMENS AG, Berlin & Munich West Germany.	Automatic control circuitry for apparatus affected by dead time.
144792	5-7-1976	THE TATA IRON & STEEL CO. LTD., Jamshedpur, State of Bihar, India.	Apparatus for carrying out the electro slag/ electro flux refining process for metals.
144852	28-7-1973	ROBERT BOSCH G.MbH. Post foch str. 7 Stuttgart 1, West Germany.	An electrically sealing composition and a method of its preparation.
144958	15-4-1976	MASCHINENFABRIK REINHAUSEN GEERUDDER SCHEUBECK KG. 8, Falkensteinstrasse, 8400 Regensburg 12, F.R.G.	A tap selector for a tap switch assembly of a tapped transformer.

1	2	3	4
145327	30-5-1975	ALUMINJUM PECHINEY, 28 Rue de Bonnel 69003, Lyon, France.	Apparatus for continuously determining the interval resistance of an electrolysis cell.
145446	17-1-1977	JOHNSON & JOHNSON, 501, George Street, New Brunswick, New Jersey, U.S.A.	An electrode pro viding electrical contact with a patents skin.
145553	18-10-1976	BHARAT HEAVY ELECTRICALS LTD., 18-20, Kasturba, Gandhi Marg, New Delhi-1. India.	An acceleration gover nor for steam turbines.
145681	3-12-1976	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, INDIA.	Improvements in or relating to a process of making a photosensitive paper for electr ophotographic machines.
145781	28-1-1977	GENERAL ELECTRIC COMPANY, 1 River Road, Schenectady 5, New York, U.S.A.	An electrical capacitor and method of preparing same.
145792	2-2-1977	BHARAT HEAVY ELECTRICALS LTD., 18-20, Kasturba Gandhi Marg, New Delhi-1. India.	An electromagnetic device adapted to determine the flow state of liquid.
145880	13-9-1976	MC CRAW EDISON CO. 333 West River Road, Elgin, Illinois, U.S.A.	A method and apparatus for preparing a capacitor.
145925	8-7-1976	DURACELL INTERNATIONALE INC. 3029 East Washington Street, Indiana Polis, Indiana, U.S.A.	Vent for electrical devices such as primary & Secondary electro-chemical cells method of making the vent and electrochemical comprising the rent.
146014	11-2-1976	GOULD INC. 10 Gould Centre Rolling Meadows, Illinois 60008, U.S.A.	Explosion proff gang vent for closing the cell opening of a storage battery.
146033	3-10-1975	Do.	A lead acid battery.
146034	10-9-1975	Do.	Maintenance free lead acid storage battery.
146035	10-9-1975	Do.	Lead acid battery.
146036	10-9-1975	Do.	Maintenance free lead acid storage battory having improved current draw characteristics.
146133	3-7-1976	GENERAL ELECTRIC CO. 1 River Road, Schenectady State of Now York, . 12305, U.S.A.	Gas cooled flux shield for dynamo electric machine.
146168	3-11-1976	BUNKER RAMO CORPORATION, 900 commerce Deive, Oak Brook, Illinois, U.S.A.	Coaxial cable connector.
146186	2-2-1977	HAZEMELJER B.V. Tuindorpstraat 61, Hengelo, The Netherlands.	Vacuum switch.
146225	12-11-1976	BUNKER RAMO CORPORATION, 900 Commerce Deive, Oak Brook, Illinois, USA.	Coaxial cable connector.
146293	4-11-1976	SIEMENS AG, Berlin & Munich, West Germany.	Digital data processing arrangement more particularly for railway safety engineering.
146453	15-12-1976	GENERAL ELECTRIC CO. 1 River Road, Schendectady, New York, USA.	End cap baffle structures for reverse flow cooled dynamo electric machine.
146730	14-2-1978	BHARAT HEAVY ELECTRICALS LTD. 18-20 Kasturba Gandhi Marg, New Delhi-1, India.	An electromagnetic. device adapted to determine the flow state of liquid.
146778	17-3-1978	GLOBE UNION INC., P.O. Box 591, Milwaukee, Wisconsin, 53201' U.S.A.	A battery grid and method of manufacturing the same.
146860	17-6-1976	SOCIETE CHIMIQUE DES CHARBONNACES, Toure Aurore 92080, Paris La Defence, France.	Protection circuit for protecting an electrical appliance connectable to a polyphase supply.
146917	20-3-1978	GOPI KISHAN KABRA, of 17 Camac Street, Calcutta, State of West Bengal, India.	A sparker.
146946	14-12-1977	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India.	Improved process for electrolytic etching of aluminium foil for use as anode in the fabrication of high voltage aluminium electrolytic capacitors.

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146972	3-11-1977	BHARAT HEAVY ELECTRICALS LTD., 18-20, Kasturba Gandhi Marg, New Delhi-1, India.	A power amplifier.
147165	3-11-1977	Do.	A speed measuring unit.
147177	11-11-1976	The General Electric Company Ltd., of 1 Stanhope, Gate, London W1A, 1EH, England.	A strating relay arrangement.
147386	3-11-1977	BHARAT HEAVY ELECTRICALS LTD., 18-20 Kasturba Gandhi Marg, New Delhi-1, India.	A dither ascillator.
147445	12-7-1977	SIEMENS AG. of Perlin & Munchen, Federal Republic of Germany.	Alternating current regulator.
147879	24-5-1977	SIEMENS AG. of Berlin & Munich, West Germany.	Electric Switchgear.
148272	19-6-1978	THE GENERAL ELECTRIC COMPANY LTDA. of 1 Stanhope Gate, London W1A, 1EH, England.	Improvements in or relating to moving coil electrical indicating instruments.
148405	30-11-1977	GENERAL ELECTRIC COMPANY, 1, River Road, Schenactady 5, New York, U.S.A.	Method of reducing coated x-ray anodes & x-ray anodes having such coatings.
148443	24-1-1979	BHARAT HEAVY ELECTRICALS LTD., 18-20, Kasturba Gandhi Marg, New Delhi-1, India.	A device for measuring residue stresses on metallic objects.
148473	28-3-1977	UNION CARBIDE CORPORATION, of 270 Park Avenue, New York, State of New York, 0017, U.S.A.	Galvanic cell having a resealable vent clesure and method of making it.
148474	23-3-1977	UNELEC S.A. 38, Avenue klabar 75784 paxis, cedex 16, France.	An interchangeable three phase tripping decice for a three pole circuit braker.
148486	15-5-1978	THE TATA IRON & STEEL CO. LTD., Jamshedpur, State of Bihar, India.	A signalling system for use in coke ovens.
148499	18-1-1978	SIEMENS AG. of Berlin & Munich, West Germany.	Printed Circuit board.
148531	13-5-1977	SIEMENS AKT ENGESELLSCHAFT, of Berlin & Munich, Germany (West).	Brushless synchronous machine.
148688	28-10-1977	SIEMENS AKTIENGESELLSCHAFT, Berlin & Munich, West Germany.	Safety out put unit for a data processing installation.
149045	2-3-1977	BHARAT HEAVY ELECTRICALS LTD. 18-20, Kasturba Gandhi Marg, New Delhi-1, India.	A pressure and differential pressure indicator.
149066	2-3-1977	BHARAT HEAVY ELECTRICALS LTD. 18-20, Kasturba Gandhi Marg, New Delhi-1, India.	A pressure and differential pressure indicator.
149161	2-1-1978	SIEMENS AG. Berlin & Munich, West Germany.	Assembly for receiving a plurality of printed circuit boards.
149070	8-6-1977	MONOSOLAR JNC. 100 Wilshire, Boulevard, Santa, Monica, California, USA.	Method of preparing a photovaltaic power generating cell.
149089	5-3-1979	BHARAT HEAVY ELECTRICALS LTD. 18-20, Kasturba Gandhi Marg, New Delhi-1, India.	Flue gas automatic analysis and monitoring equipment.
149352	26-8-1977	WARD & GOLDSTONE LTD., Frederick Road, Salford, Manchester M6, 6AP, England.	Improvements in or relating to electrical plugs.
149354	2-1-1978	SIEMENS AG, Berlin & Munich, West Germany.	Control device for thyristor—fed D.C. Motor.

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149358	15-3-1978	H TACH LTD. 5-1, 1-chome, Marunouchi, Chiyodaku, okyo, Japan.	Electrically insulated windings.
149401	31-8-1978	SIEMENS AG, Berlin & Munich, West Germany.	Appearatus & Mothod for depositi n c f semi-conductor materials.
149558	14-7-1978	SIEMENS AG, of Berlin & Munich F.R.G.	Apparatus for bit error quota measurement in a digital transmission system.
149986	27-6-1978 ..	HITACHI LTD., 4, 1-chome, Marunouchi, Chiyoda-ku, Tokyo, Japan.	Electric device and method of fabrication the same.

MECHANICAL & GENERAL ENGINEER NG LIST NO. III

COMMERCIAL WORKING OF PATENTED INVENTION

The following Patents in the field of Mechanical & General Engineering industry are not being commercially worked in india as admitted by the Patentees in the statements filed by them under Section 146(2) of Patents Act, 1970, in respect of calender year 1984 & 1985 generally on account of want of requests for licences to work the Patented inventions. Persons who are interested to work the said Patents commercially may contact the patentees for the grant of a Licence for the purpose.

Patent No.	Date of Patent	Name & Address of the Patentees	Title of the invention
140084	21-5-1974	G.D. SOCIETA PER AZ ONI, of Via Pomponia, 10 Bologna, Italy.	Apparatus for accumulating and supplying lengths of material in sheet form.
140203	7-12-1973	GIRLING LTD. of Kings Road, Tyseley, Birmingham 11, England.	Improvements in automatic adjusters for vehicle brakes.
140215	3-7-1973	Do.	Improvements in vehicle hydraulic master cylinder assembly and braking system incorporating such assembly.
140349	9-11-1973	ISHIKAULAJIMA-HARIMA JUKOGYO KABUSHIKI KAISHA, of No. 2-1, 2-Chome, Ote-Mach8, Chiyoda, Ku, Tokyo-to Japan.	Suspension type preheating systems for powdery raw materials.
140412	4-12-1973	CHIYODA CHEMICAL ENGINEERING CONSTRUCTION CO. LTD. of 1580 Tsurumi cho, Tsurumi-ku, Yokohamashi, Japan.	Flexible sand chain for soft ground and method for constructing the same in the soft ground
140413	4-12-1973	Do.	Pile driver for use in forming sand drains.
140499	21-9-1973	SIMUN CARVES LTD., of Bird Hall-Land, Cheadle Health Stockport Cheshire, England.	Safety means for use in discharging coke from coke ovens.
140501	23-12-1974	BRITISH STEEL CORPORATION, of 83 Grosvenor Place London, S.W.-1, England.	Improvements in or relating to the production of metal strip from powder.
140694	27-1-1975	ARTHUR WINSTON BUCKTON GARNER, Middlofield Cottage, Greet Shelford, Cambridge, England.	Cricket bat.
140816	14-1-1974	WARNER-LAMBERT TECHNOLOGIES, 6373, Stemmons Freeway, Dallas, Texas, U.S.A.	Improvements in or relating to a novel combination of birefringent elements for polorizing interferential system.
140886	24-9-1974	FLUIDRIVE ENGINEERING CO. LTD. of Fuild Works, Worton Road, Islenorth, Middlesex, England.	Fluid couplings & motor drive installation incorporatin the same.
140053	13-2-1975	GIRLING LTD., of King Road, Tyseley, Birmingham. 11, England.	Improvements in disc brakes for rail vehicles.
141064	4-6-1974	PANDROL LTD., of 7 Rolls Buildings, Fetter Lane, London EC-4 1JB, England.	A railway rail-fastening member and a railway rail and fastening a sembly employing it.
141204	15-11-1973	FOREST CITY DILLON INC. of 1730 Akron-Penninsule Road, Akron, Ohio, USA.	Unitized building and method of eracting the same.

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141224	24-4-1974	DR. C. OTIO & COMP. GmbH, of 463, Bochum, West Germany.	Process for the quenching of hot coke discharged from a cooking oven.
141397	23-3-1974	NATIONAL RESEARCH DEVELOPMENT CORPORATION, of 66-74, Victais Street, London, S.W.-1, England.	Method and apparatus for removing testes from the decorticated Kernels of cashewnuts.
141428	2-7-1975	SHELL INTERNATIONAL RESEARCH MAATSCHAPPIJ, B.V. of Carel Van Bylandtlaan 30, the Hague, The Netherlands.	Apparatus for feeding finely divided solid fuel to a high pressure gassification chamber.
141434	24-4-1974	DR. C. OTTO & COMP. GMBH, of Bochum West, Germany.	Coke oven door.
141461	12-3-1974	National-SOUTHWIRE & ALUMINUM, Company, 126 Fertilla Street, Carratton, Georgia, 30117, U.S.A.	Method & apparatus for producing homogenised metal billets.
141478	23-5-1975	PALITEX PROJECT COMPANY GMBH, of Weersorweg 8,-415 Krefeld, West Germany.	Means on or attachable to a textile machine for the positioning or receiving of a thred and its transport along a pre-determined path.
141631	27-2-1974	INCUSS ENGINEERS & CONSULTANTS of 609 Grant street, Pittsburg, State of Pennsylvania, U.S.A.	Operating mechanism for slidable agtes of bottom pour Vessel.
141643	9-7-1974	ENGINEERING COMPONENTS LTD., of 14 Liverpool Road, Slough, Bickinghamshire, England.	A method of producing cork gaskets and gaskets so produced.
141676	9-1-1974	CASTROL LIMITED, Burmah House. Piperir way, Swindon, Wiltshire, England.	Hydraulic system contiaining on orthosilicate ester hydrtsaulic fluid.
141879	31-5-1974	G.D. SOCIETA PER AZIONI, of Via Pomponia, 10 Bologna, Etaly.	Transmission system for a high speed cigarette packeting machine.
142000	7-12-1973	S. KISUI KASEIHIN KOGYO KABUSHIKI KAISHA, of No. 1-25, Miniamikyobat-cho, Narashi, Nara, Japan.	Method for producing receptacles from thermoplastic resin foam sheet.
142123	-12-1973	COMALO (J & S) PTY, Limited, 95 Collins Street, Melbourne, State of Victoria, Commonwealth of Australia.	Metal expanding machine.
142145	20-3-1975	GIRLING LTD., of Kings Road, Tyseley, Birmingham, 11, England.	Improvements in vehicle disc brakes.
142201	24-10-1973	WESTINGHOUSE ELECTRIC CORPORATION, of Pittsburgh, Pennyslvania, U.S.A.	System for controlling operation of a steam turbine.
142312	11-11-1974	DR. C. OTTO & COMP. GMBH, of Bochum, West Germany.	Flue gas collector main on re-gener atively heated coke ovens.
142345	18-9-1974	GIRLING LTD. of Kings Road, Tyseley, Birmingham 11, England.	Brake pressure control valves.
142380	31-3-197	IMPERIAL CHEMICAL INDUSTRIES LTD., of Imperial chemical House, Millbank, London, SW, England.	A method and apparatus for solids liquids separation.
142666	1 -7-1974	WESTINGHOUSE ELECTRIC CORPORATION, of Westinghouse Bldg., Gateway Centre, Pittsburgh, Pennsylvania, 15222, U.S.A.	High pressure laminate and method of measuring same.
142672	13-1-1975	NITTO BOSEKI CO. LTD., of 1 Aza Higashi, Gonama, Fukushimashi, Japan.	Method and apparatus for manufacturing glass fibres.
142679	19-7-1975	WIEGAND KARLSRUHE GMBH, of Einsteinstrasse 9-15. Ettlingen 7505, F.R.G.	Improvements in or relating to gas scrubbing apparatus.
142715	4-%-197	THE PARKAR PEN COMPANY, of 219 East Court Street, Wisconsin 53545' U.S.A.	A nib assembly for a writing pen and writing pen incorporating the nib assembly.
142750	7-11-1974	BENAMALI SEN, of 20, Brindaban Mullick Lane, Calcutta-700009, West Bengal, India.	Slot ovens.

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142818	28-1-1976	THE PRKER PEN COMPANY, of 219 East Court Street, Janesville, Wisconsia. U.S.A.	Improvements in or relating to modular writing pens.
142892	28-7-1973	ROBERT BOSCH, GMBH, of Postfech 50, 7, Stuttgart 1, of Postfach 50, 7 Stuttgart 1, West Germany.	Composite resistor and method of manufacturing the same.
142998	26-9-1974	G.D. SOCIETA PER AZIONI, of Via Pomponia, 10 Bologna, Italy.	Device for transferring and shaping ready for use.
143017	3-1-1976	F.L. SMIDTH & CO A'S, of 77 Vigerslev Alle, DK, 2500, Valby, Copenhagen, Denmark.	Improvements relating to rotary drums.
143076	25-10-1975	GIRLING LTD., of Kings Road, Tyseley, Birmingham, 11, England.	Improvements in actuator assemblies for vehicle brakes.
143109	21-10-1974	PHILIP MORRIS INCORPORATED, of 100 Park Avenue, New York, N.Y. 10017, U.S.A.	Process apparatus for expanding tobacco.
143184	8-10-1976	SHELL INTERNATIONALE RESEARCH MISSTSCHAPPIJ B.V., of Carel Van Bylandtlaan 30, The Hague The Netherlands.	Process for the separation of dry particulate matter from a hot gas.
143209	23-12-1974	MUNSANTO COMPANY, of 800 North Lindbergh Boulevard, St. Louis Missouri, 63166, U.S.A.	A process for manufacturing a fibre reinforced and fibre reinforced hose obtained, therefrom.
143275	31-3-1975	DR. C. DITO & COMP, GMBH, of 463, Bochum, West Germany.	A coke guide machine movable on the coke side of coke oven batteries.
143291	13-5-1975	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel Van Bylandtlaan 30, The Netherlands, The Hague.	Apparatus for the gasification of finely divided fuels.
143450	9-6-1975	PALITEX PROJECT COMPANY GMBH, Weserweg 8, 415, Krefeld West Germany.	A spinning or twisting spindle in particular a double twisting spindle.
143479	12-6-1975	F.L. SMIDTH & CO. A'S, 77, Vugerskev Alle DK-2500, Valby Copenhagen, Denmark.	Improvements relating to the calcination of pulverous materials calcination plant for carrying out the same and a rotory kiln in corporating a calcination plant.
143499	1-2-1975	DR. C. OTTO & COMP, GMBH, Bochum, West Germany.	Underjet coke oven batteries.
143500	14-3-1975	G.D. SOCIETA PER AZIONI, Via, Pomponia, 10, Bologna, Italy.	Device for supplying pieres of wrapping material to wrapping machines improved to prepare the said peces for use in particular as the inner wrap in cigarette packets of the hinge lid type.
143501	2-5-1975	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ, B.V., Carel Van Bylandtlaan 30 The Hague, The Netherlands	A process & apparatus for producing a fuel gas by partially combusting a fuel that contains ash and yield a hot product gas containing sticky particle.
143508	28-10-1976	F.L. SMIDTH & COM A/S, 77 Vigerslev Alle, DK, 2500, Copenhagen, Valby Denmark.	Improvements in tube mills for drying and grinding.
143588	27-2-1974	USS ENGINEERS AND CONSULTANTS INC. 600 Grant street, Pittsburgh State, of Pennyslvania, U.S.A.	An arrangement for conducting gas to a permeable plug in combination with a bottom pour vessel.
143591	11-3-1975	PALITEX PROJECT CO., GMBH, Weeserweg 8, 415 Krefeld, West Germany.	Means for the measurement of thread storage on a double twisting spindle.
143617	15-11-1974	CLUPAC, INC, 530, Fifth Avenue, New York, New York-10036, U.S.A.	Web compacting apparatus incorporating improved lubricating means.
143729	5-5-1976	F. L. SMIDTH & CO. A/S, 77 Vigerslev Alle, DK-2500, Valby, Copenhagen, Denmark.	A method of calcining pulverous or granular raw material and a kiln plant for the same.

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143730	23-7-1976	MONSANTO CO, 800 North Lindbergh Boulevard St. Louis, Missouri 63166, U.S.A.	Hose reinforced with discontinuous fibres oriented in the radical direction and method for preparing the same.
143775	20-9-1974	SYNAIR CORPORATION, P.O. Box 1087, 17452, Irvine, Boulevard, Tustin, California, U.S.A.	A wheel mounted flat free tire and method of prorucing the same.
143992	7-12-1974	GIRLING LIMITED, Kings Road, Tyseley, Birmingham, England.	Master cylinder for breaking systems.
143884	5-8-1975	PALITEX PROJECT COMPANY GMBH, Weeserweg 8, 415 Krefeld, West Germany.	A double or two for one twisting spindle and a spinning or twisting machine incorporating it.
144006	24-7-1976	ARMSSTRONGS CORK COMPANY, Liberty & Charlotte Streets, Lancashire, State of Pennsylvania, U.S.A.	Apron skiving machine.
144067	19-11-1974	G.D. SOCIETA PER AZIONI, via Pomponia, 10 Bologna, Italy.	Device for feeding wrapping material.
144112	10-2-1977	DR. C. OTTO & COMP. GMBH, Bochum, West Germany.	Device for discharing dusty gases resulting from the pushing of cooking ovens.
144138	2-1-1976	DIRECT POWER LTD., New Car House, 98, Camden Road, London, N.W. 10, EP, England.	Improvements relating to opposed piston internal combustion engines.
144180	7-1-1975	HOLLINGSWORTH GESELLSCHAFT MLTBESCHRANKTER HAFTUNG, D-7261, Oberhaugstett, F.R.G.	Beater roll for open-end spinning machines.
144305	20-6-1975	SUNKIST GROWERS INC., 14130, Riverside, Drive, Sharman Daks, State of California, U.S.A.	Conveyor for fragile objects.
144384	8-5-1975	AEROQUIP GMBH, 3510, Hann Munden West Germany.	Pressure hose comprising soveral layers of reinforcing strengtheners.
144437	19-6-1975	GRASSO,S KONINKLIJKE MASCHINENFABRIEKEN N.V. Parallelweg 27, 5-Hertogenbosch, The Netherlands.	A method & apparatus for machining and gearwheel for a rotary displacement machine.
144462	10-7-1975	GIRLING LIMITED, Kings Road, Tyseley, Birmingham 11, England.	Improvements in internal shoe drum brakes.
144491	4-6-1975	Do.	Vehicle brake actuators.
144646	18-9-1976	FESTO MASHINNEN FABRIK GOTTLIEB STOLL, Ulmer Strasse 48, Esslonger a N, Germany.	Connection apparatus for use in a fluid supply lines.
144724	28-4-1975	THE GOODYEAR TIRE & RUBBER COMPANY, 1144 East Market Street, Akron, Ohio, U.S.A.	Multi-ribbed power transmisslon belt and method of making said belt.
144734	6-5-1975	GIRLING LIMITED, Addreen as in 144462.	Brake pressure control valves.
144742	21-7-1976	DAVIDSON & CO. LTD., Bridge and BT 54 AG Northern, Ireland.	Rotary rogenerative preheater.
144816	12-3-1976	CLUPAK, INC. 530, Fifth Avenue, New York, New York-10036, U.S.A.	High bagasse content newsprint paper and method for making the same.
144844	8-3-1977	N.V. PHILIP,S GLOELLAMPEN-FABRIEKEN, Emmasingel, Eindhaven, Netherlands.	A metallized Plastic reflection and a method of manufacturing the same.
144858	6-8-1976	BRITISH STEEL CORPORATION, 33 Grosvenor Place, London, S.W. 1 × 7, JO, England.	Improvements in or relating to furnaces especially to furnaces for continuously treating strip material.
144864	14-3-1975	G.D. SOCIETA PER AZIONI, Via, Pomponia, 10 Bologna, Italy.	Device for varying the forword movement arrangement of packets of cigarettes.

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144888	8-7-1975	F.L. SMIDTH & CO. A/S, 77, Vigerslev Alle DK-2500, Copenhagen Valby, Denmark.	Rotary packer for filling sacks.
144905	20-12-1976	MANFRED STREICHER, Bahanhofstrasse 22, 7141 Beilstein, F.R.G.	A displacement pump.
144910	22-11-1975	JOHANNES ZIMMER, Ebentalerstrasse 133, 9020, Klagenfurt, Austria.	Squeegee device.
144947	16-6-1975	G.D. SOCIETA PER AZIONI, Via Pomponia, 10 Bologna, Italy.	Device for controlling the sealing of wraps made of thermoplastic material.
144968	25-10-1976	R.A. LISTER & CO., Longqn Street Dursbey, Gloucestershire, GL, 11 @HS, England.	Improvements in or relating to a piston for an internal combustion engine.
144950	22-2-1975	GIRLING LIMITED, Kings Road, Tyseley, Birmingham, 11, England.	Improvements in or relating to internal shoe drum brakes.
145031	8-5-1975	GIRLING LIMITED, Kings Road, Tyseley, Birmingham, 11, England.	Railway vehicle disc brakes.
145055	21-5-1975	Do.	Improvements in vehicle brake actuators.
145069	3-4-1975	Do.	Improvements in vehicle brake actuators.
145152	22-5-1975	Do.	Control valve assemblies for vehicle braking systems.
145264	31-1-1976	GRASSO'S KONINKLIJK MACHINE-FABRIEKEN, N.V. Parellelweg, 27 5-Hertogenbosch, The Netherlands.	Rotary displacement compressor with capacity control.
145274	13-12-1976	F.L. SMIDTH & CO. A/S, 77, Vigerslev Alle DK-2500 Valby, Copenhagen, Denmark.	Improvements relating to ventilated tube mills and method of grinding cement clinker in a said mill.
145305	21-1-1976	BUREAU BBR LTD., Reisbachst strasse, 57 Zurich, Switzerland.	Upset head at a high strength tension wire and method for the production thereof.
145353	3-2-1976	JAN EDVARD PERSSON, Henrikedalaringen 17, VS-13100, Nacks, Sweden.	Pump intended for pumping a liquid medium.
145354	10-3-1976	SINGLE BUOY MOORINGS INC., Rue alboebovet, Switzerland.	Flooding structure.
145401	17-3-1977	G.D. SOCIETA PER AZIONI, via, Pompania, 10, Bologna, Italy.	Device to check and discard lengths of wrapping material (foil) in very high speed packet cigarette packets.
145417	23-10-1976	WESTINGHOUSE ELECTRIC CORPORATION, Westinghouse bld., Gateway centre, Pittsburgh Pennsylvania, 15222, U.S.A.	A method of producing homogenous sintered 2-No. non linear resistors, sintered resistor body obtained thereby and lightening arrestor containing the same.
145476	20-2-1976	CENTRE STEPHANOIS DE RECHERCHES, MECANIQUES HYDRMECANIQUE ET PROTTEMENT Zone Industrialle Rue, Dchoit, Fourneyron, Andrezieu, Boutheon (Loure), France.	Continuous transport system.
145490	17-3-1977	G.D. SOCIETA PER AZIONI, Via, Pomponia, 10 Bologna, Italy.	Device for putting the inner foil wrapper with the lengths long ends over are of the larger faces of the bundle of cigarettes in a very high speed soft packet cigarette packer.
145535	15-5-1976	DEANE HILLSMAN, 870, E-1 Chorro way, Sacramento, California 95825, U.S.A.	An apparatus for measuring respiratory air flow a patient and displaying it together with aplinised respiratory air flow.

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145616	4-8-1977	NITTO BOSEKI, Co. Ltd., 1, Aza Higashi, Gonome, Fukushimia-shi, Fukushima, Japan.	Method and apparatus for manufacturing glass fibres using deflectable air curtain.
145639	12-11-1976	F.L. SMIDTH & CO. A/S, 77 Vigerslev Alle, DK 2500 Copenhagen, Valby Denmark.	Tube mill.
145646	18-5-1975	HENRY WALLWORK & CO. LTD., Roger Street Redbag, Manchester, England.	Making foundry moulds.
145684	15-6-1976	SPIE BATINGNOLLES, Tour Anjou, 33 Quai National, Puteauz Haults-de-Seine, France.	A device for protecting a structure against effects of high horizontal dynamic stresses.
145693	22-6-1977	AUTOMOTIVE PRODUCTS, Teckbrook Road, Lamington Spa. Warwickshire, CV 31, 3, CR, England.	Circular friction facing and method of manufacturing the same.
145702	4-10-1976	F.L. SMIDTH & CO A/S, 77, Vigerslev Alle, DK-2500, Valby Copenhagen, Denmark.	Kiln Plant.
145749	22-2-1975	VICTOR DMITRJECH REMIZOV, & ETC. Kondratievsky, Prospect 16/11, K.V. 9, Leningrad, U.S.S.R.	Apparatus for artificial ventilation of lungs.
145810	19-10-1977	ICI, Limited, of Imperial Chemical House, Hill Bank, London, S.W. 1 P. 3 JF.	Explosive fuse cord method and apparatus, for manufacturing the same.
145818	16-8-1976	UNITED TECHNOLOGIES, 1, Financial Plaza Hart Fort, Connecticut, 06101, U.S.A.	Process for preparing a thermally protected super alloy structure.
145830	21-5-1976	SINGLE BUOY MOORINGS INC. Fribourg 12, Rue Abbovet, Switzerland.	Single point mooring buoy.
145859	22-9-1976	GREER HYDRAULIGS INC. 5930, W, Jafferson, Blvd, Los Angles, California, 90016, U.S.A.	Pressure vessels.
145896	20-4-1976	DY. E. SARLIN, AB, Kaivoksela, Finland.	Centrifugal pump.
145946	24-4-1976	Do.	Pump unit for immersion in a liquid.
145973	31-8-1976	FSCHER WYSS AG Zurich, Switzerland.	Improvements in or relating to constaractless seals.
145975	21-9-1976	SCHUBERT & SALZER MASCHINENEN FABRICK AG, Friedrich-Ebert-Strasse 84, Ingolstadt, West Germany.	Method apparatus for automatically rendering fleeccssilvers and the like uniforms by drafting.
145986	19-3-1977	PALITEX PROJECT CO GMBH, Postfach 2228, 4150, Krefeld, West Germany.	Two-for-one twisting spindles.
146050	9-8-1976	The Bloxwich Lock & Stamping Co. Ltd., P.O. Box 4, Alexandaer Works Bloxwich, Welsall Staffordshire Ws, 32 JR, England.	Improvements in fastening mechanisms for doors of mechanism.
146160	15-3-1977	DR. C. OTTO & COMP, GMBH, 463, Bochum, West Germany.	Apparatus for cleaning the doors of cooling.
146172	12-11-1976	PATPAN INC. Panama (Panama).	Apparatus for vacuum drying flat pieces.

CHEMICAL ENGINEERING LIST NO, V

COMMERCIAL WORKING OF THE PATENTED INVENTIONS

The following Patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under section 146(2) of the Patents Act, 1970 in respect of calendar years 1984 & 1985 generally on account of want of requests for licences to work the patented invention. Persons who are intered to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

Patent No.	Date of Patent	Name & Address of the Patentee	Title of the Invention
1	2	3	4
146241	7-4-1977	UNION CARBIDE CORPORATION 270 Park Avenue, New York 10017, U.S.A.	Continuous hydroformylation process.
146320	30-5-1977	MOBIL TYCO SOLAR ENERGY CORPN. 16 Hickory Drive Waltham Massachusetts, U.S.A.	Method and apparatus for reducing residual stresses in crystals while the crystals are being pulled from a melt.
146324	16-5-1977	UNION CARBIDE CORPORATION 270 Park Avenue, New York 10017 U.S.A.	Process of treating fabrics with foam.
146339	10-5-1977	THE CHEMITHON CORPORATION 5430, West Morginal Way, S.W. Seattle Washington 98106 U.S.A.	Sulfonation organic reactants & apparatus therefor.
146351	7-5-1976	IMPERIAL METAL INDUSTRIES (KYNOCH) LTD. Kynoch Works, Witton, Birmingham B 6 7BA England.	A method of manufacturing an alloy of titanium.
146408	24-1-1978	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, State of New York 10017, U.S.A.	Improved hydroformylation process.
146527	28-4-1977	HINDUSTAN LEVER LIMITED Hindustan Lever House, 165-166 Backbay Reclamation, Bombay-20.	A method of purifying perfumery materials.
146613	26-7-1977	ICI LTD. of Inperial Chemical House, Mill Bank, London, SWIP, England.	A method of preparing a hardened calcium sulphate hemihydrate plaster.
146661	6-7-1977	UNION CARBIDE CORPORATION, of 270 Park Avenue, New York, State of New York, 10017, W.S.A.	Improvement in or relation to hydroformylating an alpha-elefin.
146699	12-1-1977	HINDUSTAN LEVER LIMITED, of Hindustan Lever House, 165-166 Backbay Reclamation Bombay-20, Maharashtra, India.	An antiperspirant composition.
146734	11-8-1977	UNION CARBIDE CORPORATION, at 270 Park Avenue, New York, State of New York 10017, U.S.A.	A process for producing aldehyde products by Rhodium catalyzed hydroformylation of alphaolefins.
146833	1-7-1977	LUBRIZOL INC. Box. 17100, Euclid Station, Clevelond, Ohio 44117 U.S.A.	A process for preparing a nitrogen containing additives.
146956	17-6-1977	UNION CARBIDE CORPORATION, at 270 Park Avenue, New York, State of New York 10017, U.S.A.	Process for refining molton metal.
147013	8-9-1977	HINDUSTAN LEVER LIMITED, of Hindustan Lever House, 165-166 Backbay Reclamation Bombay-20, Maharashtra, India.	Process of refining Triglyceride oils.
147022	20-1-1978	UNION CARBIDE CORPORATION, at 270 Park Avenue New York, State of New York-10017, U.S.A.	Method for preparing titanium-modified silylchromate catalysts for ethylene polymerization.
147048	3-12-1977	HOECHST AKTIENGESELLSCHAFT of 6230, Frankfurt/Main 80, Fedral Republic of Germany.	Process for making stabilized Red Phosphorus.
147145	5-12-1977	SHOWA DENKO KABUSHIKI KAISHA, of 13-9, Shiba Daimon, 1-Chome, Minata-ku, Tokyo, Japan.	Process for preparing a ferrochromium by using a blast furnace.
147225	22-9-1977	UNION CARBIDE CORPORATION, at 270 Park Avenue, New York, State of New York 10017, U.S.A.	Preparation of modified and activited chromocene catalysts for ethylene polymerization.

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147245	11-8-1977	DART INDUSTRIES, INC. 8480, Beverly Boulevarx, Los Angeles, California 90048, U.S.A.	A process for producing decorative laminate.
147255	5-10-1977	FMC CORPORATION, of 200 Market Street, Philadelphia, Pennsylvania 19103, U.S.A.	A process for obtaining hydrogen sulfide free steam from geothermal steam or industrial gas streams containing hydrogen sulfide and water vapour.
147266	10-2-1978	HINDUSTAN LEVER LIMITED, of =industan Lever 165-166, Backbay Reclamation, Bombay-400020, Maharashtra State, India.	Deodorant detergent composition.
147296	27-6-1977	UNION CARBIDE CORPORATION, at 270 Park Avenue, New York, State of New York-10017, U.S.A.	Process for low ring sulfur content of vanadium carbon materials used as additions to steel.
147300	26-7-1977	ICI LTD. of Imperial Chemical House, Mill Bank, London, SW1P, England.	A set-inhibited aqueous calcium sulphate hemihydrate plaster slurry composition.
147427	21-1-1978	SHIN-ETSU CHEMICAL COMPANY LTD. of 6-1, Otemachi, 2-chome Chiyoda-ku, Tokyo, Japan.	Improved method for the polymerization of vinyl monomers.
147429	24-1-1978	UNION CARBIDE CORPORATION 270 Park Avenue New York, State of New York 10017, U.S.A.	Inproved hydroformylation process.
147448	4-8-1978	HINDUSTAN LEVER LIMITED, of Hindustan Lever House, 165-166 Backbay Reclamation Bombay-20, Maharashtra, India.	Process for improving colour and removing undesirable adour of soap.
147459	2-2-1977	ARTHUR GNEUPEL, Bitziberg 5, Bachenbulach, Switzerland.	Ozonizer.
147516	6-1-1978	LADISLAV JOSEPH PIRCON, 305, Canterberry Lane, Oak Brook, Illinois, Brook, Illinois, 60521, U.S.A.	Low Pressure drop heterogenous reactor and process.
147738	14-11-1977	MONSANTA COMPANY, 800, North Lindbergh Boulevard, St. Louis, Missouri 63166, U.S.A.	Multi-component membranes comprising a porous separation membrane and processor for gas separation using the multi-component membranes.
147851	6-1-1978	LADISLAV JOSEPH PIRCON, of 305, Canterberry Lane, Oak Brook, Illinois, 60521, U.S.A.	Process for the production of Fertilizers.
147866	26-9-1977	QUTOKUMPU OY of Toolonkatu 4, SF-00100, Helsinki 1o, Finland.	A hydrometallurgical process for the recovery valuable metal content from the soluble silicate-bearing materials.
147962	15-5-1978	HINDUSTAN LEVER LIMITED, 165/166, Backbay Reclamation, Bombay 20, Maharashtra, India.	A process for making particulars, detergent compositions.
147983	29-6-1978	INDIAN EXPLOSIVES LTD. of 34 Chowringhee, Calcutta-700071.	A process for the preparation of a Stabilized hydroxy alkyl nitrate liquor.
148085	14-3-1978	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. Of Carel Ven Bylandtlaan, 30, The Hague, The Netherlands.	Process for the partial combustion of finely divided solid carbonaceous fuel and reactor for carrying out the same.
148118	22-3-1978	CIBA-GEIGY AG. of Klybeckstrasse, 141, 4002 Basle, Switzerland.	Process for bleaching textiles.
148240	18-4-1978	UNILEVER LIMITED, of Unilever House, Blackfriars, London EC-4, England.	Water pervious sheet material suitable for manufacture of Tea bags process for preparing the same and tea bags prepared therefrom.
148257	14-10-1977	SHOWA DENKO K.K. of 13-9 Shiba-Daimon 1, Chome, Minate-ku Tokyo, Japan.	Method for manufacture of Water-blast high carbon ferrochromium shot.
148409	7-4-1978	HOECHST AKTIENGESELLSCHAFT, of 6230 Frankfurt/Main 80, F.R.G.	Process for the preparation for abrasion resistant nondusting and water-soluble dyestuff particles in a fluidized bed.

1	2	3	4
148713	27-7-1977	THE LUBRIZOL CORPORATION, of P.O. Box 17100 Euclid Station, Cleveland, Ohio 44117, U.S.A.	Method of making at least One nitrogen containing organic compound from a substituted nitrophenol a hydrazine compound.
148960	5-4-1979	ENRICO CORVI MORA, via Scalabrini 49 29100 Piacenza, Italy.	A process for preparing lysergol derivatives.
149077	18-8-1978	OUTOKUMQU OY, of Toolonkatu, 4 SF-00100 Helsinki 10, Finland.	A process for the recovery of zinc, copper, and cadmium in the leaching of zinc calcine.
149088	24-11-1978	SOCIETE LAB. of 241 Route de Gevas 69100 Villeurbaune, France.	A process and apparatus for separating impurities contained in liquid or gaseous fluids in suspension by centrifugal treatment and installation comprising plurality of solid apparatus.
149315	1-9-1978	THE LUBRIZOL CORPORATION, of 29400, Lakeland Boulevard, Wickliffe, Ohio, 44092, U.S.A.	Process for preparing a sulfurized composition.
149449	7-10-1980	HOECHST AKTIENGESSLLSCHAFT, 6230 Frankfurt/'Main 80, F.R.G.	Process for the production of magnesium phosphide.
149510	10-7-1978	VOEST-ALPINE AG. A-1011, Vienna, Friedrichstrasse 4, Austria.	Process for treating sponge iron for protection against reoxidation and apparatus for.
149540	26-3-1979	CPC INTERNATIONAL INC. International Plaza, Englewood Cliffs, New Jersey 07632, U.S.A.	A process for producing an immobilized glucose isomerase.
149553	6-2-1978	THE LUBRIZOL CORPORATION, of 29400 Lakeland, Boulevard, Wickliffe Ohio 44992, U.S.A.	Lubricant composition.
149583	10-7-1979	HINDUSTAN LEVER LIMITED, of Hindustan Lever House, 165-166, Backbay Reclamation Bombay-20, Maharashtra, India.	A method of extracting n-Paraffins (wax) from mineral oil containing n-Paraffins.
149588	8-3-1978	RHEINMETALL GMBH of 4, Dusseldorf, Ulmenstrasse 125, West Germany.	Surface coating comporition for ammunition with combustible catridge case or ammunition without cartridge case.
149615	4-9-1978	THE LUBRIZOL CORPORATION, of 29400 Lakeland Boulevard, Wickliffe, Ohio, 44092, U.S.A.	Process for preparing sulfurized composition.
149734	26-2-1979	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165-166, Backbay Reclamation, Bombay-20, Maharashtra, India.	Process for preparation of synthetic fatty acid soap from paraffins.
149760	29-3-1979	LILLY INDUSTRIES LIMITED, of Henrietta House, Henrietta Place, London W1, England	A method of preparing synergistic fungicidal formulations.
149789	17-4-1980	ALCAN RESEARCH AND DEVELOPMENT LTD of 1, Place ville Mario, Montreal, Quebec, Canada.	Method of producing improved metal alloy products.
149795	17-4-1980	HINDUSTAN LEVER HOUSE, 165-166, Backbay Reclamation, Bombay-20, Maharashtra, India.	A process for hydrogenation of unsaturated organic material such as oils, fats and for gatty acids with silica supported nickel catalyst.
149859	7-12-1978	EISENWERK-GESELLSCHAFT MAXLMILIANSHUTTE MBH. 8458, Sulzbach-Resonberg, West Germany.	Method of improvement of the heat-balance in the refining of steel.
149920	14-5-1979	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, State of New York 10017, U.S.A.	Process for the preparation of water soluble pesticidal quaternary ammonium salt compound.
149944	3-7-1978	BIOMECHANICS LIMITED, Smarden, Ashford, Kent England.	Method of treating biodegradable waste material by anaerobic digestion and an apparatus for carrying out the said method.

1	2	3	4
150018	27-11-1979	HINDUSTAN LEVER LIMITED Hindustan Lever House, 165-166 Backbay Reclamation, Bombay-20.	A process for making an improved dimensionally stable detergent bar.
150029	27-11-1979	Do.	A process for making an improved dimentionally stable detergent bar.
150035	26 11-1979	INDIAN EXPLOSIVES LIMITED, ICI House, 34 Chowringhee Road, Calcutta-700071, West Bengal, India.	Dry blasting explosive compositions having increased initiation sensitivity and method for the preparation thereof.
150090	8-3 1979	THE LUBRIZOL CORPORATION, 29400 Lakeland Bldvd. Wickliffe, Ohio 44092, U.S.A.	Process for preparing an additive composition.
150106	28-12-1979	F. HOFFMANN-LA ROCHE & CO. AG., 124-184 Grenzacherstrasse, Basle, Switzerland.	Process for the manufacture of novel 1-(p-methoxy benzoyl) 2-pyrrolidinone.
150112	21-4-1981	Banamali Sen, 20, Brindaban Mullick Lane, Calcutta-700009, West Bengal, India.	Carbonising furnace for domestic fuel.
150145	4-5-1978	EISENWERK GESELLSCHAFT MAXIMILIANSHUTTE m.b.H. 8458 Sulzboch-Rosenbert, West Germany.	An improved process for the production of steel in a converter using higher proportions of solid scrap.
150249	20-3-1979	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165-166 Backbay Reclamation, Bombay-20, Maharashtra, India.	Non-germicidal deodoranl toilet soap bar and process for preparing the same.
150328	27-12-1979	POLYSAR LIMITED, Sarnis, Ontario, Canada.	Apparatus for the sampling and dilution of a sample from a fluid stream.
150389	4-3-1980	STAMICARBON B.V. P. O. Box 10, Geleen The Netherlands.	Method for the production of benzaldehyde.
150411	5-12-1978	ICI LTD. Imperial Chemical House, Mill Bank, London SW-1P, 3JF, England.	Hardenable resin composition with enhanced fire resistant propertier.
150552	2-3-1979	MONSANTO COMPANY, 800 North Lindbergh Boulevard St. Louis, Missouri 63166, U.S.A.	A process of borming nitrodiarylamine by condensation of nitrohaloarene of formly derivative of a primary aromatic amine with alkali metal hydroxide.
150558	7-6-1979	CORNING GLASS WORKS Houghton, Park, Corning, New York 14830, U.S.A.	Method and apparatus for making optical glass articles.
150612	23-10-1978	MONSANTO COMPANY, 800 North Lindbergh Boulevard, St. Louis, Missouri, 63166, U.S.A.	The process fot making nitrodiarylamine.
150613	21-1-1980	INDIAN EXPLOSIVES LIMITED, ICI House 34, Chouringhee, Calcutta-700071, West Bengal, India.	Process for the preparation of an improved sensitising liquor adapted for use with cap-sensitive arnall diameter slurried explosive composition.
150614	13-12-1978	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, State of New York 10017, U.S.A.	Process for producing particulate filler containing resole molding composition from aqueous dispersion.
150716	24-1-1979	HAROLD ASHLEY MSMASTER, 420 Water Street, Woodville, Ohio, U.S.A.	Apparatus for beneling and tempering glass street.
150736	1-11-1978	MONSANTO COMPANY, 800 North Lindbergh, Boulevard, St. Louis, Missouri, 63166, U.S.A.	A process for the preparation of nitrodiarylamine.
150765	16-12-1978	JACQUES HENRY MERCIER, Rue Des Sablens, 75116 Paris, France, U.S.A.	Pressure vessel.
150766	29-12-1978	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, States of New York 10017, U.S.A.	Process for the removal of acid gas such as CO_2 from a hydrocarbon feed gas.

1	2	3	4
150804	4-1-1979	MONSANTO COMPANY, 800 North Lindergh, Boulevard, St. Louis, Missouri, 63166, U.S.A.	Process for making an amide of formic acid.
150879	22-11-1978	OUTOKUMPU OY Outokumpu, Finland.	A process for the separation of phosphate and carbonate minerals from each other by froth flotating.
150908	20-9-1978	AMERICAN GYNAMID COMPANY, Wayne, New Jersey, U.S.A.	Process for preparing a melt-spun acrylonitrile polymer fibre.
150912	20-4-1979	F.L. SMIDTH & CO. A/S. 77 Vigerslev, Alle, DK-2500 Copenhagen Valby, Denmark, Danish Company.	Method for the production of -alumine and an apparatus for carrying out the same.
150937	3-3-1979	MONSANTO COMPANY 800 North Lindbergh Boulevard, St. Louis Missouri, 63166, U.S.A.	An improved process for the preparation of nitrodiarylamines.
150951	24-3-1980	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Process for the preparation of hydrocarbons.
151014	21-6-1979	HINDUSTAN LEVER LIMITED Hindustan Lever House, 165-166 Beckbay Reclamation, Bombay-20.	A process for obtaining basic aluminium halide such as chlorine, bromide or iodide having improved anti-perspirant properties.
151020	1-11-1978	MONSANTO COMPANY 800 North Lindbergh, Boulevard, St. Louis Missouri, 63166, U.S.A.	A process for the preparation of nitrodiarylamines.
151053	4-5-1979	POLYSAR LIMITED Sarnia Ontario, Canada.	A process for the polymerization of butadiene-1, 3 to reduce a cis-1, 4-polybutadiene.
151070	30-3-1978	UNION CARBIDE CORPORATION 270 Park Avenue, New York, State of New York 10017, U.S.A.	Preparation of ethylene copolymers in fluid bed reactor.
151160	31-3-1980	HINDUSTAN LEVER LTD. Hindustan Lever House, 165-166 Backbay Reclamation, Bombay-20.	Method & apparatus for the manufacture of of multi-coloured detergent bars and detergent bars so produced.
151247	1-9-1979	CPC INTERNATIONALE, INC. International Plaze, Englewood Clifts, New Jersey 07632, U.S.A.	A process for producing a glucoamylase enzyme preparation.
151248	15-2-1980	INSTYTUT CHEMII PREZEMYSLOWEJ Warzawa, ul Rydgiera 8, Poland.	A process for isloation of giberlines especially of giberelinic acid from residual biosynthetic solution.
151250	30-9-1980	MONSANTO COMPANY 800 North Lindbergh Boulevard, St Louis, Missouri, 63166 USA.	Process for the preparation of 2, 4, 5- substituted thiozole carboxylates herbicidal safening agents.
151317	29-1-1981	HINDUSTAN LEVER LIMITED Hindustan Lever House, 165-166, Backbay Reclamation, Bombay-20	Process for the manufacture of water soluble alkali metal salts of D-sulphonated alkyl esters of long chain fotty acids.
151322	18-1-1980	Do.	Liquid duty dishwashing liquid detergent composition.
151346	23-8-1978	CHLORINE ENGINEERS CORP. LTD. 2-5, Kasumgaseki 3-chome, Chiyoda-ku, Tokyo, Japan.	Process for purifying aqueous solution of alkali, metal halide for electrolysis.
151357	13-11-1980	KURHE KAGAKU KOGYO KABUSHIKI KAISHA 9-11, 1-chome, Nihobashi Horidome-cho, chuo-ku, Tokyo, Japan.	Process for the preparation of methylated prostogland in derivative bonded to steroid hormone.
151398	20-7-1979	CPC INTERNATIONAL INC, International Plaze, Englewood cliffs, New Jersey, 07632, USA.	A process for producing a glucoomylase enzyme preparation.
151406	7-3-1980	MITSUBISHI GAS CHEM, CO. INC 5-2, Marunouchi-2-chome, chiyoda-ky, Tokyo, Japan.	Sodium hydro sulfite bleaching composition.

1	2	3	4
151457	30-5-1980	SCHERING CORPORATION 2000 Galloping Hill Road, Kenilworth New Jersey, USA.	A process for the preparation of micronized beclomethasone dipropionate-trichloro-fluoromethane solvate.
151484	14-11-1979	MONSANTO COMPANY 800 North Lindbergh, Boulevard, St. Louis Missouri 63166 USA.	A method of preparing a mixture containing thiolcarbamate or acetanilide.
151711	6-7-1981	HINDUSTAN LEVER LIMITED Hindustan Lever House, 165-166 Backbay Reclamation, Bombay-20.	A process for preparing hardened and dehydroxylated castor fatty acid feed stock.
151910	28-2-1980	CONSORTIUM FUR ELEKTROCHEMISCHE INDUSTRIE GMBH. Zeilstattstrasse 20, 8000 Munchen, West Germany.	Process for the manufacture of diazinon.
151912	5-12-1980	VOEST-ALPINE AG. A-1011 Vienna, Friedrichstrasse 4, Austrio.	Process & apparatus for continuously reducing and melting of metal oxides and/or pre-reducing metallic materials.
151948	18-6-1980	MITSUI PETROCHEMICAL INDUSTRIES LTD. 2-5, 3-chome, Kasumigaseki, Chiyoda-ku, Tokyo, Japan.	Process for producing olefin polymers or copolymers.
152084	25-3-1980	MONSANTO COMPANY 800 North Lindbergh Boulevard St. Louis, Missouri 63166.	A process of encapsulating water-immiscible material within a shell wall of polyurea.
152086	12-5-1981	NIPPON ZEON CO. LTD. 6-1, 2-chome Marunouchi, chiyoda-ku Tokyo, Japan.	Improved process for separating conjugated diolefin hydrocarbons from a hydrocarbon mixture.
152087	30-3-1979	UNION CARBIDE CORPORATION 270 Park Avenue, New York, State of New York 10017, USA.	A process for preparing a catalyst composition for nomopolymerizing ethylene and the catalyst composition prepared by the same.
152088	30-3-1979	Do.	Impregnated polymerization catalyst process for preparing the same and its use for ethylene copolymerization.
152128	16-5-1979	METALLURGICAL DEVELOPMENT CO. Trust corporation, Bahamas Building West Bay Street, Nassau, Bahamas.	Pyrometallurgical smelting of an oxidic charge containing lead & copper.
152139	24-5-1979	ICI LTD Imperial Chemical House, Millbank London SWIP, JJF England.	Process for the pre preparation of a stable suspension of fine crystalline material.
152141	30-3-1979	UNION CARBIDE CORPORATION 270 Park Avenue, New York, State of New York , 10017, USA.	Preparation of high density ethylene polymers in fluid bed reactor.
152145	27-12-1979	Do.	A process for producing a magnesium and bitanium containing catalyst composition.
152153	30-3-1979	Do.	Process for the preparation of high density ethylene polymers in fluid bed reactor.
152253	25-7-1979	Do.	Process for mixing liquid additives with solid materials.
152174	16-7-1979	UNIE VAN KUNSTMESTFABRIEKEN B.V. P.O. Box 45, 3500 AA Utrecht, The Netherlands.	Process for the preparation of a granular NPK Fertilizer.
152274	17-10-1979	UNITED STATES BORAX & CHEMICAL CORPORATION 3075 Wilshire Boulevard Los Angeles, California, USA.	Froth flotation process for zinc sulphide.
150737	2-3-1979	NATIONAL RESEARCH DEVELOPMENT CORPORATION, 66-74, Victoria Street, London SWL, England	A method for the separation of gas from a fluid comprising said gas.

COMMERCIAL WORKING OF PATENTED INVENTIONS

Mechanical & General Engineering List No. IV.

The following patents in the field of Mechanical & General Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under Section 146(2) of the Patents Act, 1970 in respect of Calender year 1984 & 1985 generally on accounts of want of requests for licences to work the Patented inventions. Persons who are interested work the said Patents commercially may contact the Patentees for the grant of a licence for the purpose.

1	2	3	4
146305	16-5-1977	UNION CARBIDE CORPORATION, 270, Park Avenue, New York, USA.	A foam compoition for treating a fabric or paper substrate.
146382	5-5-1976	THE RUBBER TIRE & RUBBER, COMPANY, One General Street, Akron, Ohio, 44329, USA.	Method & apparatus for producing tangential force variation in pneumatic tires.
146388	7-3-1977	G.D.S. CIETA PER AZIONI, Via Pomponia, 10, Bologna, Italy.	Device for guiding and holding cigarette batches in apparatus for transferring aid batches from a conveyor upto a machine for packeting cigarettes into a hinged lid typed packets.
146413	11-10-1976	SOLO INDUSTRIES PVT LTD., 15-21 Reynolds Street, Ba main New South, Wales, Australia.	Transistor ugnition circuit for an internal combustion engine.
146438	24-12-1976	DRG (U.K.) LTD., 1 Rodcliffe Street, Bristol, England.	A method of assembling a printing roll comprising a printing sleeve and roll core and a detachable sleeve printing roll so obtained.
146488	27-9-1976	SCHUBERT & SALZER MASCHINBHFABRIK AG, Friedrich-Ebert-Streasse 84, 8070, Ingolstadt, West Germany.	A method of producing a bobbin of yarn and device for carrying out the same.
146518	23-9-1976	AMERICAN STANDARD INC. 40, West 40th Street, New York, N.Y. 10018, U.S.A.	Brake control valve device with movable control reservoir chenging valve.
146638	12-1-1977	WESTINGHOUSE BRAKE AND SIGNAL CO LTD, 3 John street, London WC, IN 2 ES, England.	Vehicle braking control apparatus.
146711	1-6-1976	GIRLING LTD. Kings Road, Tyseley, Birmingham 11, England	Improvements in and relating to brake aasemblies.
146712	1-6-1976	Do.	Improvements in and relating to brake assemblies.
146713	1-6-1976	Do.	Improvements in or relating to brakes.
146714	1-6-1976	Do.	Improvements in or relating to disc brakes.
146820	19-11-1976	HINDUSTAN LEVER LTD, Hindustan Lever House, 165-166, Backbay Reclamation, Bombay-20, Maharashtra, India.	Toothbrushes.
146880	9-7-1976	SEKISUI KASEIHIN KOGYO K.K., No. 1-25 Minamikybobate-cho, Nara-shi Nara, Japan.	Die for producing receptacles from a thermo plastic resin foam sheet.
146882	22-12-1976	COTRAV S.A.G. Schaffauser Strasse 580 8052, Zurich, Switzerland.	An assembly which can be used as a ramp.
146893	16-8-1976	VOEST-ALPINE AKTIENGESELLSCHAFT, 1011, Vienna, Friedrich-strasse 4, Austrial	Drive means arrangement for cutting heads.
147116	1-3-1978	HOECHST AKTIENGESELLSCHAFT, of 6230, Frankfurt/Main 80, Federal Republic of Germany.	Process and device for the manufacture of a tube bend of thermoplastic material.
147122	19-9-1977	KAJ-RAGNAR LOQUIST ET AL, Ragnbagavsgen 40, S 77300, Fagersts, Sweden.	An apparatus for utilizing kinetic energy.
147161	10-6-1976	SOCIETE D'ETUDES DE MACHINES THERMIQUES—S.E.M.T. 2, Quai de seine 93202, Saint Denis, France.	Device for measuring & foollowing the degree of wear of a first element having pre determined magnetic properties in sliding contact with a second element.

1	2	3	4
147175	6-9-1976	SOCIETE NATIONALE DES POUDRES ET EXPLOSIFS, of 12 Quai Henri IV, Cedex 04, 75181, Paris, France.	Improvements in or relating to a screw extruder having a screw casing connected to a bed.
147193	21-3-1977	THOMAS H. SHEPHERD OF 12 North Greenwood, avenue, Hope well New Jersey 08525, U.S.A.	A mold constructed of thermoplastic material & a process for producing contact lenses.
147202	19-1-1977	MOBIL TYCO SOLAR ENERGY CORPORATION 16 Hickory Drive, drive waltham Massachusetts U.S.A.	Solar cells and method of producing the same.
147282	12-8-1977	F.L. SMIDTH & CO. A/S of 77 Vigorsiev Alle DK-2500 Velly Copenhagen Denmark.	Mechanical adjustable roller support for drums.
147431	30-4-1977	MOBIL TYCO SOLAR ENERGY CORPORATION 16 Hickory Drive Wa tham Massachusetts U.S.A.	Apparatus for crystal growth.
147475	16-5-1977	UNION CARBIDE CORPORATION of 270 Park avenue New York State of New York 10017 U.S.A.	A form application head for application of foam to a substrates.
147487	29-6-1978	INDIAN EXPLOSIVES LIMITED 34 Chowringhee Calcutta 700 071 West Bengal India.	A self- sealing pack and a method of making the same.
147515	9-5-1977	OY. E. SARLIN AB Kalvoksela Finland.	Impeller.
147562	19-1-1978	HINDUSTAN LEVER LIMITED 165-166 Backbay Reclamation Bombay-20 Maharashtra India.	An improved device for pouring porable materials such as liquids slumes and coloids from a container.
147587	11-5-1977	TESA S.A. of Rue Bugnon 38, 1020 Renens Switzerland.	Adjustable fork gauge.
147650	15-2-1977	ALEXANDER GEORFE COPSON of 32 High Street Yaddlsthorpe sounthorps Lincolanshire England.	Normally closed gas exhaust valve and diving gas recovery system incorporating the same.
147668	12-1-1977	USS ENGINEERS & CONSULTANTS INC. of 600 Grant Street Pittsburgh State of Pennsylvania, U.S.A.	Subsaurface pumping installation for handling viscous or sand-laden fluids.
147767	12-7-1977	SCHUBERT & SALZER MASHCHINEN FABRIK AKTIENGESELISCHAFT of Friedrich-Ebertstreese 84, 8070 Ingolstadt West Germany.	Apparatus for winding a thread delivered at a constant speed.
147782	5-8-1978	INDIAN EXPLOSIVES LIMITED 34 Chowringhee Calcutta-700 071 West Bengal India.	A cartridge spacer assembly.
147887	23-11-1977	eisenwerk gosellcschaft MAXIMILLANSHUTTE mbH 8458 Sulzbach Rosenbert West Germany.	
147938	24-9-1977	AMERICAL STANDARD INC 40 West 40th Street New York N.Y. 10018 U.S.A.	An absorbing apparatus in a draft gear of railroad cars.
148002	21-7-1977	SUCCESSOR TO COLIN WILLIAM SKELTON 160 Kilaben Bey New South Walses 2203 Australia.	Safety drop brake.
148055	7-4-1977	WESTINGHOUSE ELECTRIC CORPORATION Westinghouse Bldg. Gateway Center Pittsburgh Pennsylvania 15222 U.S.A.	A rotor assembly for a gas turbine engine.
148086	16-3-1978	YOUNGFLEX S.A. of 1 Rue Fries 1701 Fribourg Switzerland.	Brake fluid reservaire.
148098	1-9-1977	RHEINMETALL GMBH. of 4 Dusseldorf Ulmanstrasse 125 West Germany.	Cartridge casing for a propellant charge.

1	2	3	4
148113	28-10-1977	TOMOE TECHNICAL RESEARCH COMPANY of 2-91-1 Honjyo Naka Higashi-Deaka-shi Osaka Japan.	Butterfly valve.
148128	11-7-1977	BRITISH STEEL CORPORATION 33 Grosvenor Place London S.W. 1 England.	Apparatus for compacting particulate metalliterous material into steip form and method therefor.
148148	3-9-1977	WESTINGHOUSE ELECTRIC CORPORATION Westinghouse Bldg. Gateway Center Pittsburgh Pennsylvania U.S.A.	Apparatus for applying an insulating coating an elongaged metallic chamber.
148170	27-7-1978	I.S.C. SMELTING LIMITED of 6 St. James's Squire London SW1Y 4 LD England.	Improvements in or relating to tuyeres for blast furnaces and furnaces having such tuyeres installed therin.
148220	31-5-1977	GLUSEPPE RATTI INDUSTRIA OTTICA S.P.A. Lungodora, Firenze 119, 10 153, Torino, Italy.	Improved bar for spectacle frame.
148316	22-8-1978	AUTOMOTIVE PRODUCTS LIMITED, tachbrook Road, Leamington Spa., Warwickshire, CV 31, 3ER, England.	Diphragm spring clutches.
148333	14-4-1977	I.S.C. SMELTING LIMITED, of 6 at. James's square, London S.W. 1 Y 4 LD, England.	Blast furnace charging apparatus.
148351	26-6-1977	INDIAN HEAD, INC. of 1211, Avenue of the Americas, New York, 10036, U.S.A.	Improvements in or relating to a brake actuating device.
148394	25-1-1977	SAUNDRES VALVE COMPANY LTD. of Cwmbran, Gent, NP 4 3XX, Wales.	Method of forming an injection moulded functional lining on a valve body.
148408	21-2-1978	YOUNGFLEX S.A. of 1, Rue Fries, 1701, Fribourg, Switzerland.	Cushion support element.
148442	20-3-1978	CONTRAVES AG. of Schaffhauseratrasee, 580, 8052, Zurich, Switzerland.	Solar heat collector.
148478	16-3-1978	SANDVIK AKTIEBOLAG, Fack 5-811 01, Sandviken 1, Sweden.	Drill bit.
148514	8-6-1977	BUREAU BBR LTD., of Riesbachasitrasse 57, Zurich, Switzerland.	A wedge push-in apparatus for a wire tensioning press.
148540	20-1-1978	AKTIEBOLAGET MEDLINE, of Wallingaten 37, S-111, 24 Stockholm, Sweden.	Device for at least temporary occluation of body channels.
148594	29-6-1977	SOCIETE INTERNATIONALE, DE MECANIQUE, INDUSTRIELLE, S.A. of 37 rue Notre-Dame, Luxembourg.	Improvements in centrifugal pumps.
148622	20-4-1978	RUHRKOHLE AKTIENGESELLSCHAFT, ETC of Rellinghause Str. 1, 4300, Essen, West Germany.	A method for taking in and taking away gases leaking during cooking and device therefor.
148626	3-4-1978	DR. C. OTTO & COMP. GMBH. Christrasse 9, Cobbum, West Germany.	Means for supporting the battery checking of underjet coke ovens.
148753	19-8-1977	DUNLOP LIMITED, Dunlop House, Ryder Street, St. James's, London SW 1, England.	Improvements in or relating to spring.
148762	8-8-1977	USS, ENGINEERS AND CONSULTANTS, INC. 600, Grant Street, Pittsburgh, State of Pennayivania, U.S.A.	A nozzle for preventing alumina build-up during continuous casting of aluminium killed steel.
148924	25-5-1978	BRITISH STEEL CORPORATION, 33, Grosgenor place, London S.W. 1, England.	Method of surfacing circularsection of metal members and a metallic roll or wheel so surfaced.
148950	19-12-1977	MARTIN ENGINEERING COMPANY, of Route 34, Neponset, Illinois 61345, U.S.A.	Conveyor belt cleaner blade mounting arrangement.
148980	3-1-1978	NADELLA, of 133-137 Boulevard National 92505, Rueilmolmaison, France.	Handle bar stearing head set assembly for bicycles and the like.

1	2	3	4
149019	21-8-1970	Carbonundum Universal Limited, of 28, Rajaji, Salai Madras 600 001, Tamil Nadu, India.	An improved abrassive grinding wheel and a process for manufacturing the same.
149028	7-10-1977	PALITEX PROJECT-COMPANY GMBH of Weesarwag 8, 4150, Karefeld, West Germany.	Two-for-one double twisting machine.
149049	3-2-1978	SCHUBERT & SALZER MASBHINENFABRIK AKTIENGESELLSCHAFT. Friedrich-Ebert-Stresse 84, 8070, Ingolstadt, West Germany.	Device for stopping the rotor of an open and spinning apparatus.
149138	30-12-1977	FESTO-MASCHINENFABRIK GOTTLIEB STOLL, of Ulmer Stresse 48, Kesslingen, West Germany.	Fluid transfer apparatus.
149157	2-9-1978	HANOTA HOLDINGS S.A. 37, rue Notre-Dame Luxembeurg, Great-Ducy of Luxembourg.	Building block set and method of building block sets.
149198	10-10-1977	PALITEX PROJECT-COMPANY GMBH of Weeserweg 8, 4150, Krefeld, West Germany.	Two for one twisting machine.
149199	1-11-1977	TEX INNOVATION AB OF P.O. BOX 5006, S-42105, Vestra, Frolunds 5, Sweden.	Method of producing a conditioned fibrous materials with reduced tendency to wrinkla due to vacuum packaging and if desired vacuum packing the so obtained materials.
149302	23-6-1977	TERSA S.A. of Rue Bugnon 38, 1020 Renene, Switzerland.	Micrometer nead for internal measurement instrument.
149306	11-1-1978	DURAMETALLIC CORPORATION, 2104, Factory Street, Kalamazoo, Michigan, U.S.A.	Improvements in a bypass flush system for a mechamical seal assembly.
149325	28-5-1977	DUNLOP LIMITED, of Bunlop House, Ryder Street, St. James's London Sw1, England.	Improvements to tyre and wheel rim assemblies.
149328	12-8-1977	UNION CARBIDE CORPORATION, 270, Park avenue, New York, State of New York, 10017, U.S.A.	Apparatus for reflning molten metal.
149332	16-2-1978	GELENKWELLENBAU GMBH, Westondh 7-9, 4300 Essen 1-, F.R.G.	A bearing system for a universal joint.
149349	23-6-1979	RYSOKE HOSOL, 5-9-10, Kami Minani, Hirano-ku, Osaka, Japan.	An improved drill for high-feed machining operations.
149418	11-10-1977	SEALED POWER CORPORATION 2001, Snaford Street, Muskagon, Michigan 49443, U.S.A.	A slip latch in cambination with a circular spacer-expander for use in a piston oil control ring.
149461	17-1-1978	PATPAN INC. c/c. ICAZA, CONAZLEZ. RUIZ & ALEMAN CALLE, Aquiline De la Cuardia No. 8, Panama city, Penama.	Apparatus for drying flat articles of perour material under vacuum.
149561	1-11-1978	SOCIETE DES ACIERS DE L' EST, 57301, Magondonge, France.	Device for regulating the flow of molten metal through a taphole and corresponding tapping rod of distributor in a continuous casting installation.
149598	17-5-1978	WESTINGHOUSE ELECTRIC CORPORATION of Westinghouse building Gateway centre, Pitsubrgh, Pennsylvania 15222, U.S.A.	Extrudable oil-permeated lubricant wicking material and method of making same.
149653	28-7-1978	GELENKWELIENRAU GMBH WESTENDH, 7-9, 4300 Essen 1, F.R.G.	Means for precise alignment of a welding device.
149700	3-5-1978	VALMET OF, Punanetkenkatu 2, 00130 Halsinki 13, Finland.	Means for leading and for unleading of dry geeds carrying vessels in a cargo handling system.
149715	20-8-1975	U.S.S. ENGINEERS & CONSULTANTS, of 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Method and apparatus for locating improperly positioned or bent rolls.
149722	12-7-1978	VOEST-ALPINENE AKTIENGESELLSCHAFT, A-101, Vienna, Friedrichstrasse 4, Austria.	Device for seeling the gap between component parts rotatable relative to each other.

1	2	3	4
149724	18-12-1978	UNITED TECHNOLOGIES, CORPORATION 1, Finland Plaza, Plaza, Hartford, Cennecticut-06101, U.S.A.	A rotor blade assembly and specifically a turbine wheel assembly.
149740	16-2-1979	MARTIN ENGINEERING CO. US. Reute 34. Nepenset, Illinois, 61345, U.S.A.	Skrit beard installation for conveyors.
149743	4-5-1978	OKULI DY. 37800, Toijala, Finland.	Cordboard strip made up of consecutive package blanks.
149786	24-5-1976	CLUPAK INCORPORATED, of 530 Fifth Avenue, New York, State of New York 10036, U.S.A.	Nip roll for treating web material and method of manufacturing the same.
149812	22-4-1978	MITRU KURODA, 16, Momoyama, Mizuno Sakon, Higashimachi, Fushimi-ku, Kyoto, Japan.	A twist detecting device for use in a detwisting apparatus.
149960	27-3-1978	CABLE BELT LTD. 3, Glenfindas Street, Edinburgh, EG 3 6, YY, Scotland.	Improvement in and relating to a belt conveyor arrangements.
150083	11-7-1978	HANS ULRICH KLINGENBERG, 3274 St. Niclaus bei, Merzligen Canton of Berns, Switzerland.	Watchcase.
150141	20-5-1977	METALLURGICAL & ENDINEERING CONSULTANTS (INDIA) LTD., Doranda, Ranchi-834 002, Bihar, India.	Improved producer gas generator.
150150	9-8-1978	WINFRIED JEAN WERDING, 77, av. du. General, Guidson, 1009-Switzerland.	Spray nozzle for dispensing liquids.
150211	26-8-1978	ALLWARE AGENCIES LIMITED. C/o. Whinney Marry & Co. 57, Chiseell Street, London EC, 1y 4 SY, England.	Clutch mechanism and fans comprising the same.
150293	17-6-1978	SCHUBERT & SALZER MASCHINENFABRIK AG. Friedrich—Ebert-Strasse 84, 8070, Ingolstadt, West Germany.	Method and apparatus for producing theread in open-end spinning apparatus.
150295	30-11-1979	EASTERN CARBONS, Sneh Milan, Telephone Exchange Road, Dhanbad 826 001, Bihar, India.	Improved beehive coke ovens.
150303	30-11-1979	EASTERN CARBONS, Sneh Milan, Telephone Exchange Road, Dhanbad 826001, Bihar, India.	A battery of improved beehive coke ovens.
150316	25-10-1978	AB AKERLUND & RAUSING, Folk, S-221 01, Lund, Sweden.	A method and apparatus for induction welding
150339	21-11-1978	I.S.C. SMELTING LIMITED, 6 St. James's Square, London, SW1Y, 4 LD, England.	Method of smelting zinc in a blast furnace.
150475	10-11-1978	CABLE BELT LTD, 3 Glanfinless Street, Edinburgh, EG, 3 6YY, Scotland.	A method of joining two rope lengths together by splicing and spliced rope lengths.
150709	14-5-1979	SOCIETE DITE, Le Point Du Jour 44600, Saint, Nazaire, France.	Air-transportable highly autonomous cross-country medical vehicle.
150821	7-2-1979	ROLAND CARL ZINN, P.O. Box 463, Tesuque, New Mexico 87574, U.S.A.	Bolt and nut assembling for accruing first and second members together to prevent dismantling by vondels.
150830	1-5-1979	AB AKERLUND & RAUSING, FOCK 5-221, 01, Lund, Sweden.	Water purification & storage unit.
150860	20-3-1979	EUGENE STVACHENKO, 6471, Riverside Drive, Redding california, U.S.A.	A long span bridge.
150889	1-9-1978	RHEINMETALL GmbH, 4, Dusseldorf, Ulmenstrasse, 125, West Germany.	Sub-calibre arrow-shaped missile having a drag-stabilising rear part.
150995	30-11-1979	EASTERN GARBONS, Sneh Milan, Telephone Exchange Road, Dhanbad 826 001, Bihar, India.	Improved beehive coke ovens.
151006	30-4-1979	HRM Cornoration, 3200, Gilchrist Road, P.O. Box 6338, Akron, Ohio 44312, U.S.A.	Fluid expandable tire building drum.

1	2	3	4
151038	3-2-1979	GLAFNZER SPICER SA., 10 Rue-Jean Pierre Timband-78301, Poissy, France.	Improved cordon joint of the block bearing type.
151068	16-3-1979	SEALED POWER CORPORATION, 100 Terrace Plaza, Muskegon, Michigen, 49443, U.S.A.	Pipe joints.
151075	14-5-1979	SOCIETE DITE, A.C. M.A.T., Le Point du Jour 44600, Saint Nazaira, France.	Transfer box for a motor vehicle.
151112	25-1-1979	NRM CORPORATION, 3200 Gilchrist Road, P.O. BOX 6338, Akron, Ohio 44312 USA.	Past cure inflator.
151203	18-1-1979	PALITEX PROJECT COMPANY, GmbH, Wesseruc g 3, 415 krefeld. West Germany.	Apparatus for use with a two-for-one twisting spindle for the taking up of and tension free release of a fingle predetermined length of thread on the liko.
151377	19-12-1980	DENKI KAGAKU KOGYO K.L. 4-1, Yura-ku-cho, 1-Chome, Chiyodaku, Tokyo, Japan.	Vertical type thermal decomposition furnace used for producing carbon block.
151400	4-8-1979	VOEST-RLPINE AG, A-1011, Vienna, Friedrichstrassa 4. Austria.	Deviec for cooling the cutter teeth of a cutter tool.
151409	7-5-1980	Patpan, Inc. C/o. AICAZA & ALEMAN Calle Aquilino, De la Gurardia, No. 8, Panama City (Pananma)	Apparatu s for drying moist skins.
151428	14-3-1979	NRM CORPORATION, 3200 Gilchrist Road, P.O. BOX 6338, Akron, Ohio 44312 U.S.A.	A fire building macihne and a method of building fire using said machine.
151441	19-9-1979	FESTO-MASCHINENFABRIK GOTTLIEB STOLL, Ulmer. Strasse, 48, Essingen, a. N. Germany.	Connecting piece for supply lines carry g gaseous or fluid media.
151672	28-5-1979	SULZER BROTHERS LIMITED, CH-8401, Winterthur, Switzerland.	Means for coupling a hand drive to rotatable shaft.
151725	12-5-1979	SUSANN INES CLELIA RUNCMAN, &, Birkdala crescent, Mount Osmond, State of of south, Australia.	Apparatus for the administration of parental fluids.
151733	6-5-1981	SOCIETE LAB. 159 Cours Albert Thomas, FR-69003, Lyon, France.	Improved industrial chimneys.
151736	10-7-1979	PALITEX PROJECT-COMPANY, GmbH, Wesserweg 8, 41 5 Krefeid, West Germany.	Two-for-one twisting spindle.
151744	25-9-1979	SEALED POWER CORPORATION, 100 Terrace plaza, Muskagon, State of Michigan 49443, U.S.A.	A substantially fluid-tight metal to plastics pipe jointts.
151901	23-3-1979	SCHUBERT & SALZER MASCHINENFA-BRIK, AG. Friedrich-Ebert, Strasse, 84, 8070 Ingolstadt. West Germany.	Apparatus for separately stringing-up individual open-end spinning units.
151946	14-4-1980	GUY F. ATKINSON COMPANY, 2800, N.W. Front Avenue, Portland, Oregon, U.S.A.	High pressure shaft seal.
151957	26-5-1979	BRITISH RAILWAYS BOARD, 222 Marylebone Road, London, N.W. 1, England.	Railway vehicles.
151958	22-10-1979	UNITED TECHNOLOGIES, 1, Financial Plaza, Hartford, CT 06101, USA.	A withdrawal method of directional solidification of a casting of metal or alloy for producing a directionally solidified article and a directionally solidified article thus produced.
152021	14-5-1979	SOCIETE DITE, A.C.M.A.T. La Point du Jour 44600, Saint, Nazaire, France.	Highly autonomous cross-country work sho p and servicing van.
152075	22-2-1980	PALITEX PROJECT-COMPANY GmbH, Weeserweg 8, Krefeld 415-West Germany.	Throad brake for a two-for-one twisting spindle.
152101	14-12-1979	OPC INTERNATIONAL, INC. International Plaza, Engle-wood, cliffs, New Jersey 07632, USA.	Apparatus for fluidized bed driving of starch.

1	2	3	4
152199	15-3-1979	SEALED POWER CORPORATION, 100 Terrace plaza, Muskegon, State of Michigan, 49443, U.S.A.	A parted annular sealing ring and method of the manufacture.
152209	31-3-1980	PALITEX PROJECT-COMPANY GmbH, Wesserweg 8, 415, Krefeid, West Germany.	Filament brake for use in thread processing machines.
152211	11-4-1980	Do.	A thread brake.
152261	8-1-1980	BPB INDUSTRIES LTD. Ferguson House, 15 Marylebone Road, London NW 1, England.	A method & apparatus for heat treating particulate material.

RENEWAL FEES PAID

138918	139072	139515	140084	141324	141625	141736
143128	143148	144449	144514	144749	145386	145407
146785	147832	148195	148479	148685	148985	148986
149370	149386	149471	149648	150081	150237	150291
150425	150918	150949	151044	151045	151076	151247
151395	151398	151409	151437	151529	151733	151855
151956	152213	152250	152629	152876	152878	152894
152962	153205	153206	153294	153518	153666	153703
153853	153854	154210	154211	154267	154429	154626
154628	154737	154887	154945	154946	155267	155412
155425	155514	155515	155613	155614	155817	156107
156110	156146	156235	156294	156320	156401	156403
156439	156468	156596	156608	156609	156610	156638
156640	156643	156648	156649	156657	156661	156662
156663	156664	156668	156673	156674	156676	156678
156680	156688	156690	156693	156696	156697	156699
156705	156727	156757	156758	156759	156760	156957
156968	157020	157122	157123	157124	157154	157195
157331	157461	157465	157511.			

RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application for restoration of Patent No. 148469 dated the 27-9-78 made by Ram Narain Kher on the 4-8-86 and notified in the Gazette of India, Part III, Section 2 dated the 6-12-86 has been allowed and the said patent restored.

(2)

Notice is hereby given that an application for restoration of Patent No. 148470 dated the 27-9-78 made by Ram Narain Kher on the 4-8-86 and notified in the Gazette of India, Part III, Section 2 dated the 6-12-86 has been allowed and the said patent restored.

(3)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 150456 granted to Arun Bhaskar Gangal for an invention relating to "roasting mill for roasting food-grains seeds".

The patent ceased on the 10-10-86 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 4-4-87.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagdish Bose Road, Calcutta-700017 on or before the 30th July, 1987 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and he relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(4)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 151228 granted to Giuseppe Giammarco and Paolo Giammarco for an invention relating to "improved process for the production of hydrogen".

The patent ceased on the 7-11-86 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 4-4-87.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagdish Bose Road, Calcutta-700017 on or before the 30th July, 1987 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and he relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(5)

Notice is hereby given that an application for restoration Patent No. 151379 dated the 28-1-80 made by Niku Purnachandra on the 22-9-86 and notified in the Gazette of India, Part III, Section 2 dated the 3-1-87 has been allowed and the said patent restored.

(6)

Notice is hereby given that an application for restoration of Patent No. 152861 dated the 4-8-79 made by Babcock-Monxey Limited on the 11-8-86 and notified in the Gazette of India Part III, Section 2 dated the 6-12-86 has been allowed and the said patent restored.

(7)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 153498 granted to The Welcome Foundation Limited for an invention relating to "a method for preparing a stabilised isotonic formulation".

The patent ceased on the 21-3-86 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 4-4-87.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagdish Bose Road, Calcutta-700017 on or before the 30th July, 1987 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(8)

Notice is hereby given that an application was made under Section 60 of the patents Act, 1970, for the restoration of Patent No. 155282 granted to Reckit & Colman of India Limited for an invention relating to "a spraying device comprising a cap and a container on the spout of which is fitted the cap".

The patent ceased on the 1-12-86 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 4-4-87.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagdish Bose Road, Calcutta-700017 on or before the 30th July, 1987 under Rule 69 of the Patent Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 157600. Universal Luggage Manufacturing Company Private Limited, (an Indian Company) at Building B, Shah Industrial Estate, Saki Vihar Road, Bombay-400 072, State of Maharashtra, India. "Chain Hook for Locking Suitcase Briefcase". 27th October, 1986.

Class 1. No. 157601. Universal Luggage Manufacturing Company Private Limited (an Indian Company) at Building B, Shah Industrial Estate, Saki Vihar Road, Bombay-400 072, State of Maharashtra, India. "Lock Bracket". 27th October, 1986.

Class 1. No. 157725. Rocket Engineering Corpn. Pvt. Ltd., P.B. No. 178, 33 Udyamnagar Ext., Kolhapur-416001, Maharashtra State, India, an Indian Company. a "Cylinder Head". 27th November, 1986.

Class 3. No. 157594. Arati Engineering Company, an Indian Sole Proprietory Firm, of 11, Marol Co-op. Industrial Estate, Mathuradas Vassanji Road, Andheri (East), Bombay-400 059, Maharashtra, India. "Ice Crusher". 23rd October, 1986.

Class. 3. No. 157598. Universal Luggage Manufacturing Company Private Limited (an Indian Company) at Building 'B', Shah Industrial Estate, Saki Vihar Road, Bombay-400 072, Maharashtra State, India. "Briefcase with Locking Chain". 27th October, 1986.

Class. 3. No. 157603. Durable Electricals Pvt. Ltd., B-11/3, Hans Bhawan, Bahadurshah Zafar Marg, New Delhi-110 002, India, an Indian Company. "Pop Corn Machine". 27th October, 1986.

Class. 3. No. 157605. Modi Rubber Limited, an Indian Company, of Modinagar, Uttar Pradesh, India. a "Tyre for a Vehicle Wheel". 27th October, 1986.

Class. 3. No. 157624. Srf Nippondenso Limited, an Indian Company of 42, Community Centre, New Friends Colony, New Delhi-110065, India. "Lever for use in a starter Motor". 4th November, 1986.

Class. 3 No. 157875. National Industrial Corporation Limited (Unit Ajudhia Distillery), a company registered under the Companies Act, 1956, Flat No. 8, Khan Market, New Delhi-110 003, India. "Bottle". 14th January, 1987.

Class. 5. No. 157857. Donald Arthur Jackson, an Australian Citizen, of 55 Greenpark Road, Alinjarra, Western Australia, Commonwealth of Sustralia. a "Games Board". 12th January, 1987.

Extn. of Copyright for the Second period of five years

Nos. 151776, 151778, 153553, 153337, 153312, 153311, 151794, 153324, 154103.....Class-3.

Extn. of Copyright for the Third Period of five years

Nos. 153553, 153337, 153312, 153311, 144965, 153324, 154103.....Classs-3.

No. 144966.....Class-4.

R. A. ACHARYA
Controller General of Patents, Designs and Trade Marks

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